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## THE HANDBOOK

Vol. XXXIV

THE MASSACHUSETTS
INSTITUTE OF
TECHNOLOGY



"Mens et Manus"

#### THE HANDBOOK

VOL. XXXIV

Louis S. Morse, Jr. General Manager

RICHARD R. HALL
Managing Editor

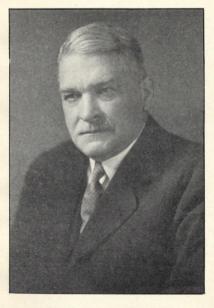
Stanley S. Rudnick Business Manager

This book is presented by:
THE TECHNOLOGY CHRISTIAN
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DR. KARL T. COMPTON President of the Institute



#### **FOREWORD**

HE Massachusetts Institute of Technology will be found by the incoming freshmen to be an unparalleled institution. As such, there are many ways in which it differs from the ordinary American college. At the same time, the undergraduates have tried to foster such things that are essential to maintain an enjoyable college life. The purpose of this HANDBOOK is to help, as much as is possible, each new freshman in understanding the customs and activities of the Institute, and to assist him in fitting his life into the career of a real Technology man, The 1930 HAND-BOOK is dedicated to this service. and we trust that the efforts in our work will be repaid by the achievements and activities of the Class of 1934.

THE EDITOR

### WASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE OFFICE OF THE DEAN

The following pages convey, in a measure, the genuine welcome that the Institute extends to the Class of 1934. In addition they suggest the manifold undergraduate activities at Technology that so profitably complement our scholastic program and enrich our community life.

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

E. Lobde



HAROLD E. LOBDELL Dean of Undergraduates



#### HISTORY

THE history of the Massachusetts Institute of Technology is directly associated with the lives of three great men, William Barton Rogers, Francis Amasa Walker, and Richard Cockburn MacLarin. In 1860 Rogers prepared a memorial asking that certain land in Back Bay be set apart for a polytechnic college; and in the

fall of that year the Institute was founded.

When the Institute opened in 1865, there were only fifteen students. President Rogers guided the destinies of the growing school until 1870 when illness compelled his resignation. The decade from 1870 to 1880 was the most critical one in the Institute's history, and but for the heroic devotion of the Faculty and the generosity of a few stalwart friends, the Institute would have had to close its doors. Despite his failing health, President Rogers again undertook the duties of the presidency. Death came to him upon the platform in Huntington Hall while he was addressing the graduating class of '82. 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 Walker was inaugurated as president in 1881. During his administration the Institute grew "from a struggling technical school to a great scientific university." In 1897 Walker died, like Rogers, at his post. At the time of his death there were twelve hundred students, but of far more consequence than the mere growth in numbers, was General Walker's influence upon the intellectual and moral tone of the school. His courage, energy, enthusiasm, and aggressive furtherance of the Institute's plan of education, were the main elements.

ments in its successful development.

After General Walker's death, Prof. James M. Crafts acted as president for a short period and upon his resignation, in 1900, Dr. Henry S. Pritchett was called to the presidency. Doctor Pritchett had

#### The Handbook

previously been director of the Coast and Geodetic Survey. During his administration the social activities and physical conditions of the Institute were

greatly developed.

In 1905 a plan for affiliation between the Institute and Harvard University was carefully considered, but it was finally decided that each institution should be developed independently along its own characteristic lines. Again in 1908, the matter of consolidation came up because of the McKay fund which was donated for the establishment of a technical school at Harvard, and which it was thought might be used to pay Harvard professors at Technology. The Supreme Court finally decided that any such plan would be a violation of the McKay trust. Consequently, there is no connection whatever between the two institutions except for the School for Public Health Officers, for graduate students.

Doctor Pritchett resigned in 1907 and his place was temporarily filled by Dr. Arthur A. Noyes who was Director of the Laboratories of Physical Chemistry at the Institute. Doctor Noyes held the chair for two years and made notable progress

along educational lines.

On November 11, 1908, Prof. Richard C. Mac-Laurin, of the Department of Physics at Columbia University, was inaugurated as President of the Institute. In the ten years he was associated with the Institute, he succeeded in raising funds for a larger and greater Technology, attained his idealistic vision with the dedication of the new building at Cambridge in 1916, put the Institute at the service of the Government in the time of war, and then labored for an endowment fund which should leave him free to carry out his plans for more perfect organization for usefulness. Worn out by his successful struggle for money, he died on January 15, 1920. To him, more than to any single man, the world owes the new Institute. All Technology holds in sorrow now, and will hold in enduring pride throughout the future, the memory





THE DOME

#### Nineteen Thirty

of Doctor MacLaurin, physicist, lawyer, administrator, intimately associated at previous periods in his career with the academic life of three continents. the self-sacrificing guide of America's greatest

scientific school.

After Doctor MacLaurin's death the affairs of the Institute were taken over by a committee of three: Prof. H. P. Talbot, of the Department of Chemistry, as chairman; Prof. E. B. Wilson, of the Department of Physics; and Prof. E. F. Miller of the Mechanical Engineering Department. Mr. Elihu Thomson, of the General Electric Company, was appointed acting president.

On March 30, 1921, Dr. Ernest Fox Nichols former president of Dartmouth College, was elected president of Technology. At that time he was Director of the Research Laboratories at Nela Park. In an effort to finish all his work there before he entered his new duties he overworked himself. As a result, on the advice of his physician, he resigned his new post without ever really assuming leadership at Technology.

After the resignation of Dr. Nichols, the Institute was again under the direction of an Executive Committee headed by Dean Talbot. In December 1922, Dr. Stratton was elected to fill the chair left vacant by Dr. Nichols' resignation. His admirable record of achievement as director of the United States Bureau of Standards, promised a brilliant future for Technology which has certainly been

realized under his leadership.

In March 1930, President Stratton resigned as President of the Institute to become Chairman of the Corporation, and Dr. Karl T. Compton was elected to succeed him. Dr. Compton was inaugurated June 6, 1930. Previous to his inauguration he was Chairman of the Department of Physics in Princeton University, and his noteworthy success augurs well for the Institute's future and it is confidently expected that Technology under President Compton will increase its reputation of being America's foremost scientific school.

#### **TECHNOLOGY**

HE 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 the Charles River Basin and also the corner stone of Walker Memorial was laid. A few facts about the new buildings will not be amiss at this time. The architect was Mr. William Bosworth, '89, and the contractors were Stone & Webster, of Boston, both of the class of '88. The first start of the construction of the new units was in April, 1914, at which time the first cement was poured into the forms. Practically the entire foundations are on piles which have been driven from 15 to 40 feet to bed rock. Approximately 25,000 piles were used. The total cost of the complete plant as planned originally by Mr. Bosworth will be approximately \$10,000,000. The buildings themselves are constructed of reinforced concrete faced with Indiana limestone. Towering above the rest of the group is the main dome under which is found the library. This dome is 150 feet in height and the buildings are four stories.

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. This building houses the best aeronautical laboratory

in the country.

Another new addition to the Institute building 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 Infirmary is located in a four-story wing of the Institute buildings. The first floor contains the office of the Medical Director, the first aid room, the nose, throat and dental clinics, four large examination rooms, eight dressing chambers, a

#### Nineteen Thirty

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 sun porch on the fourth floor. A doctor is on duty every morning, except Sundays and holidays from 8:30 to 9:30 and every afternoon from 4:00 to 5:00 except Saturdays, Sundays and holidays. There is a trained nurse

constantly on duty.

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 slightly 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 alumin 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, pool and billiard rooms complete with equipment of this building. 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.

To meet the growing demand for rooms, the Technology Dormitories have increased from year to year until now they are considered among the finest in the country. This past spring the ground was broken for a new unit which will be ready for

occupancy this Fall.

The boathouse was purchased several years ago from the B. A. A. and is for the sole purpose 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

#### The Handbook

finest in the east and better facilities for those interested in rowing whether it be for pleasure or competition can not be found.

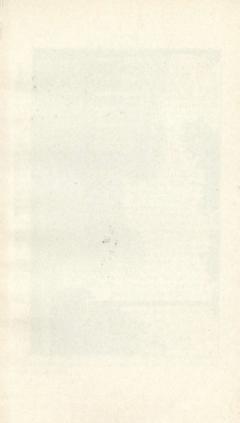
The Rogers building is one of the original Technology buildings on the old site down town. It contains the department of architecture.

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, a practice room for the polo 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, and several other facilities for track men. Adjoining the track house are the recently erected 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 GREAT COURT

#### ADVICE

In 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 feeling 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.

Do not smoke in the corridors—cigarette butts strewn around do not add to the beauty of the buildings.

#### The Handbook

- 4. Know your classmates. They are the ones who will make your stay at the Institute enjoyable and be helpful to you in later life.
- 5. Lead the strenuous life; athletics and activities welcome you. The Institute is more than a mere workshop; 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.
- 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.
- 7. 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.
- 8. Payment of the Student Tax enables you to obtain expert medical advice, free of charge, from the Institute Physician, whose office is in room 3-115.
- Suitcases, coats, and similar personal effects may be checked free of charge in the basement of Walker Memorial.
- 10. Do not reserve your room before arriving in Cambridge. The best way to get a good room is to come a few days early, get a list of approved rooms at the T. C. A. and make a personal investigation of various rooms in different localities before making a selection.
- 11. 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.

#### FRESHMAN RULES

HE Massachusetts Institute of Technology is interested not only in turning out well trained engineers, but makes every endeavor to develop in its students those attributes of character that distinguish the well rounded and educated man from the merely technically trained engineer.

Development of Technology spirit, of a real pride in the position of our school in the collegiate world and the formation of lasting friendships is fostered as much as possible by the undergraduates.

In order to create the necessary interest in Technology among the entering class and to familiarize them with its traditions the following Freshman Rules are presented to it for its information and guidance:

- 1. All Freshmen should wear regulation ties, four-in-hand, with cardinal and gray stripes. These should be worn when on the Institute grounds from the day classes begin until the beginning of Junior Week. These ties are to be sold on registration day by the Freshman Rules Committee, and after that by the Coop.
- 2. Freshmen are expected to speak to all members of the faculty and to tip their hats to the president of the Institute and the dean.
- 3. Freshmen should not loiter around the Main Lobby, or sit on the benches in the Lobby. If the Freshmen win Field Day, this restriction shall be abandoned.
- 4. Administration of the above rules shall be delegated to a Freshman Rules Committee which shall consist of a chairman, who shall be a Junior and who shall be appointed by the executive committee subject to the ratification of the Institute committee, and six other Juniors and fifteen Sophomores.

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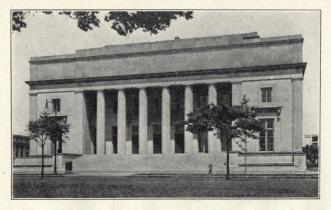
- 5. When an upperclassman or a Freshman sees another Freshman violate the above rules, he shall immediately inform the Freshman Rules Committee by dropping a card or a slip of paper in an institute mail box, stating the rule violated, and the date of violation. When four violations have been reported against one Freshman, he shall be sent a summons to appear before the committee.
- Enforcement of the rules is at the discretion of the Freshman Rules Committee.

These rules have been adopted for the purpose of bringing about a more congenial spirit at the Institute and of fostering interest in Technology among the entering class. Consequently the rules do not include measures which are merely for the purpose of humiliating the first year men.

The end of the Freshman rules regime at Tech comes early in the spring at which time there is held a big rally of the Freshman class. A tree is planted to commemorate the occasion and then a huge snake-dance is formed by the entire class and they wind slowly by a large bonfire, each one throwing his necktie into the flames. Thus ends the Freshman rules and no longer need the Freshmen fear the upperclassmen.

For three years, Freshman rules have been in existence at Technology. They have been very successful in several respects. Last June, however, it was decided to drop the "Hello" rule. It was furthermore recommended that the Quadrangle Club and the Dormitories Freshman Rules Committee cooperate to a greater extent in the enforcement of the rules.





THE WALKER MEMORIAL

#### FRESHMAN CAMP

FOR many years it had been felt that the freshmen, upon entering the Institute, were so suddenly thrown into a life entirely different from that which they were accustomed to, that they became lost in the newness of it all. The Institute found the long sought for solution in the Freshman Camp, which was inaugurated three years ago. The camp served as a short cut for a freshman to the life and spirit of the Institute, and as a compass whereby he could help orient himself

to his new world.

By living, eating and talking with a group of leading upperclassmen, 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 or 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.

This is the fifth year of the Freshman Camp, and it is becoming more popular with each year of its existence. The first year 88 freshmen attended and last year there were 233 freshmen with 100 upper-classmen. This year plans are being made to accommodate even a larger freshman delegation.

#### FIELD DAY

SINCE November 19, 1901, when the first Field Day was held the supremacy between the freshmen and sophomores has been decided in this fashion. This does away with the old cane rushes and fight between the freshmen and the sophomores and in their place substitutes a sporting proposition that has proved most successful.

For the freshmen, Field Day is more than a contest against the sophomores, as it is the beginning of their lives in activities at the Institute. Make your start a success and your career as a live man is assured. It is here that the majority of your acquaintances begin from which your best friends are formed. Don't miss the opportunity of being one to help engrave the numerals of your class on

the Field Day Cup!

Field Day consists of five parts: a football game, a crew race, a relay race, a tug-of-war, and a glove fight. Football counts four points, the crew race and the relay race each count three points, the tug-of-war two points, and the glove fight, which only this year has been included in the scoring, counts one point. As the contests are held on the first Friday in November, but a few weeks after the opening of the Institute year, the winning class is usually the class which shows the most pep in getting regular practice started. 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 and seniors for the sophomores.

Last year Field Day was very closely contested, the final decision going to the sophomore class. Several attempts were made, previous to the day, to capture class leaders on both sides; but by general consent such attempts have been outlawed owing to the extremes to which they have often been carried. The crew race came as usual in the morning, the freshmen winning by more than a length. At noon classes were dismissed and shortly afterwards activities commenced in earnest. The

#### Nineteen Thirty

tug-of-war was won in two pulls by the sophs, the frosh coming back to win a close relay race. The football game ended in defeat for the freshmen, giving the Day to the sophomores by a score of seven to six. Any remaining energy was soon taken from the members of the two classes in the ensuing glove fight. Following Field Day comes a banquet each year in Walker Memorial: a fitting close to one of the most memorable of undergraduate days at the Institute.

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

#### TECH SONGS

RICH, 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, but 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 into the enthusiasm of all gatherings and quickly develop the

Tech Spirit.





THE PRESIDENT'S RESIDENCE

# A 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 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.

## The Handbook

#### 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 Cuta 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.

### Mens Et Manus

(PRIZE SONG)

We gather together extolling thy praise, Technology Alna Mater
Thy wide arms encircle the sons thou didst raise, Technology Alma Mater;
Our minds hast thou moulded,
Our hands hast thou skilled
To follow the precepts that thou has instilled,
So rise our voices with memories thrilled,
Technology Alma Mater
Technology Alma Mater.

Words by G. M. Fair, '16

### 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 glorious Institute—
I yearn for the inspiration of
A Technological toot!—
I'd shun the physical, quizzical Prof.,
And chapel and all that;—
But how I would love to go again
On a Scientific Bat.

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.

Words by I. W. Litchfield, '85

## Hail M. I. T.

(PRIZE SONG)
Hail, M. I. T.!
Our Alma Mater hail!
Hail, hail to thee!
Thy sons shall never fail.

From far and near, we gather here,
Beneath thy tow'ring dome.
Thy spacious halls, thy columned walls,
Thy courts we call our home.
Hail, hail to thee!
Hail, hail to thee!
Firm stand the sons of M. I. T. to cheer.
Hail, hail to thee,

Our Alma Mater dear.

Words by Karl R. Kennison, M. I. T., 1908

## CHEERS

## Tech Is Hell

WE ARE HAPPY—TECH IS HELL
T-E-C-H-N-O-LO-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!





THE INSTITUTE FROM THE AIR

# DIRECTORY

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Technique General Manager, Charles E. Starr, Jr. Managing Editor, Walter J. Paltz Business Manager, Theodore A. Heim

The Tech General Manager, Gilbert M. Roddy Editor, Edward B. Hubbard Managing Editor, Ralph H. Davis Business Manager, Harmon J. Truax

Tech Engineering News General Manager, Richard T. Kropf Editor, John H. Dodge, Jr. Business Manager, Christian E. Grosser

Voo Doo General Manager, Warren T. Dickinson Managing Editor, John F. Crowther Business Manager, Emilio G. Collado

The Handbook General Manager, Louis S. Morse, Jr. Managing Editor, Richard R. Hall Business Manager, Stanley S. Rudnick

The Benchmark
General Manager, Rolf Eliassen
Managing Editor,
Business Manager, Charles M. Thayer

### Activities

Technology Christian Association President, John B. Hutchins Vice-President, Louis S. Morse, Jr. Treasurer, Tinsley W. Tucker, III Member, Executive Committee, Richard R. Hall Member, Executive Committee, Bror Grondal

Tech Show
General Manager, Willis Fleisher, Jr.
Business Manager, William D. Corder
Publicity Manager, Adolph H. Feibel
Treasurer, Jeremiah F. Cook
Director of Production, Charles B. Pear, Jr.

Combined Musical Clubs General Manager, Robert Sanders Business Manager, Frederic I. Miner Publicity Manager, Frederick S. Kline Treasurer, Eugene F. Lynch

Walker Memorial Committee Chairman, O. Glenn Goodhand, Jr. Junior Member, Eustace B. Corson Junior Member, Robert G. Henry

Architectural Student Council President, Frederick M. Moss Treasurer, Clarence H. Williams

## Athletics

Athletic Association

President, J. Harold Genrich Vice-President, James B. Fisk Treasurer, Wyman P. Boynton Secretary, Richard H. Yates Track

Captain, Bror Grondal Manager, John M. Kimble, Jr. Coach, Oscar L. Hedlund

Crew
Captain, Bertram H. MacLeod
Manager, Thomas B. Rhines
Coach, William Haines

Cross Country Manager, Carroll Wilson

Coach, Oscar L. Hedlund

Basketball
Captain, John T. Harrison
Manager, Otway W. Rash, Jr.
Coach, Henry B. McCarthy

Gym Team Captain, Stewart R. Knapp Manager, James J. Robson Coach, Edward Hincks

Swimming
Captain, H. Tyson Lykes
Manager, Howard Kinzer

Coach, R. Dean

Hockey
Captain, Benjamin Hazeltine, III
Manager, George Maynard, Ir.

Coach, W. O. Stewart

Tennis

Manager, Robert B. Follansbee

Boxing
Captain, Carl Orleman
Manager, Gerald Davis
Coach, Thomas R. Rawson

Fencing Captain, Ralph Hamilton Manager, Chauncey C. Day Coach, John Roth Wrestling
Manager, Kenneth H. Klopp
Coach, Bridson Greene

Soccer Captain, Samuel G. Ryan Manager, Byron James Coach, William R. Welch

Golf Captain, Richard H. Yates Manager, F. O. Merchant

Rifle Team Captain, Kendall Clark Manager, John C. Lyon Coach, Captain Phillips

Lacrosse

Manager, James Merrit

Coach, R. T. Sauerwien

# Professional Societies

Combined Professional Societies Chairman, Robert S. Backus Secretary-Treasurer, C. Robert Ingram

Aeronautical Engineering President, Charles B. Conwelt Vice-President, Joseph L. French Secretary, Edmund F. McLaughlin Treasurer, Paul M. Gerhard

Chemical Society
President, C. Robert Ingram
Vice-President, J. Harry Summer
Secretary, Benjamin P. Hazeltine, III
Treasurer, Forrest P. Dexter, Jr.

### Civil Engineering

President, Nelson B. Haskell Vice-President, William J. Hallahan Secretary, John M. Cleveland Treasurer, Samuel Garre, Jr.

### A.I.E.E., Tech Branch

Chairman, Gordon S. Brown Vice-Chairman, Francis D. Weeks

### Naval Architectural

President, Daniel T. Cox Vice-President, George F. Casey Treasurer, Clifford H. Hancock

### Clubs and Societies

### Tau Beta Pi

President, Richard H. Yates Vice-President, Bror Grondal

### Phi Delta Epsilon

President, Gilbert M. Roddy Vice-President, Walter J. Paltz Secretary, Ralph H. Davis Treasurer, Christian E. Grosser

### **Architectural Society**

President, Frederick M. Moss Treasurer, Clarence H. Williams

#### Stylus

President, Stewart R. Fleming Vice-President, Addison Ellis Secretary-Treasurer, Charles M. Thayer

#### Cleofan

President, Mary K. Cusick Vice-President, Katherine A. Sarabia Secretary, Evelyn B. Killam Treasurer, Isabel Ebel

#### Liberal Club

President, Standish Deake Vice-President, R. I. Armstrong Secretary-Treasurer, William Holst

#### Catholic Club

President, C. Robert Ingram Vice-President, Eugene F. Lynch Secretary, George L. Hickey Treasurer, Bueno Werra

### Square and Compass

President, R. S. Harris, Ir. Vice-President, H. P. Champlain Treasurer, W. V. Fitch Secretary, Clifford Hancock

### Interfraternity Conference

President, Joseph B. Birdsall Vice-President, O. Glenn Goodhand, Jr. Secretary, James B. Fisk Treasurer, Kenneth W. Smith

### **Dormitory Committee**

Chairman, Phillip F. Frink

#### Beaver Club President, Robert B. Semple

#### **Quadrangle Club** President, Charles C. Bell

Freshman Rules Committee

# Chairman, Robert T. Leadbetter

# A MESSAGE TO FRESHMEN

period of your lives, will wonder how you can do zeal to get a good start for this important and happy activities will be given you. Many of you, in your tions and explanations of the various undergraduate at the Freshman Camp, excellent descripate roster. In the first scholastic month and OU are warmly welcomed to the undergradu-

in some activity. The answer is to plan your time. justice to your studies and, at the same time, engage

tor industrial work at the completion of your underthe planning of your time will better prepare you possible a fuller appreciation of Technology life, all your daily activities. In addition to making your undergraduate careers is to thoroughly plan students, and the best way to get the most from nology requires continued application from all her lives-and that which you will most abuse. Tech-Time is one of the most valuable things in your

complish, the more he will achieve, limits of the individual, the more one tries to acbear in mind that, within the mental and physical It is possible for a man to overdo, but it is well to graduate me,

run without active, enthusiastic, and intelligent student government. None of these activities will association, musical clubs, dramatic clubs, and a publications, professional societies, a Christian There are varsity, dormitory, and fraternity teams, absolutely, with what you put into your life here. What you get out of Tech will be commensurate,

activity, serve earnestly, and thereby benefit! are places for all kinds of talent, Get out for an support. They need you and you need them, There

# HAROLD P, CHAMPLAIN

President, Class of 1931



HAROLD P. CHAMPLAIN President, Class of 1931



## ACTIVITIES

## Institute Committee

THE control over student affairs at Technology is vested in the Institute Committee, which is composed entirely of students. As 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 and two members-at-large of every class in the Institute besides the heads of all the recognized 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.

## Walker Memorial Committee

THE Walker Memorial Committee has care of the Walker Memorial and the Naval Hangar Gymnasium. This student administrative body 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 put to the uses most advantageous to the largest number of students.

By placing the 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.

## The Tech

THE TECH has been the Official Undergraduate newspaper of Technology since its foundation in 1881. Its object is to present to the undergraduates, faculty, and alumni all newspertaining to the Institute and the undergraduate life in an interesting manner, and at the same time give expression to student and public opinion through its editorial columns.

The paper is published three times a week with special rotogravure editions issued for unusual events such as Junior Prom. or Field Day. Its organization is run on a competitive basis, giving any Freshman an equal chance of gaining a man-

aging board position in his Senior year.

A man coming out for The Tech finds a widely varied field open to him, in the News and Business Divisions of the paper. The former covers work as reporters, as editors in the actual work of getting the paper ready for the press, in editorial writing, and in photographic and art work. The Business Division gives the men practical experience in the selling of advertising, and the treasury and circulation work. Being a news publication, The Tech has an interest in every affair at Technology, and consequently the men on it get a more intimate knowledge of the undergraduate life than they could in any other activity.

Realizing the value of the work of newspaper writing, the English Department at Technology is starting the policy of giving the Freshman reporters credit for their news articles as part theme work in E-11 and E-12. In order to take advantage of this, Freshmen are urged to come out early in the term for the paper, although they are welcome to drop in at the offices at any time. By coming out early a candidate can enter in a regular competition, one of which is run the first weeks of every term. A mass meeting for those men interested whose date is to be announced on Institute bulletin boards, will be the starting point of the fall competition.

# Technique

ECHNIQUE is the yearbook of the Institute. It is primarily a record and history of the entire preceding year in all phases of activity at Technology. This includes the faculty, athletic records, societies, fraternities, publications,

activities and a Senior portfolio.

The positions on the Technique board are on a competitive basis. Freshmen are listed as competitors and are elected to the staff in April of their first year, providing they show an interest and a fair degree of ability. From the staff is picked the Junior Board for the next year consisting of a Literary Editor, Department Editor, and Features Editor on the literary side; an Advertising Manager, Publicity Manager, Photographic Manager, and Treasurer on the business end; and an Art Editor. These men are in competition during their Junior year for the three Managing Board positions—General Manager, Business Manager, and Managing Editor—who are Seniors.

A man who comes out in his Freshman or even his Sophomore year has a splendid chance to gain experience in business practice and the art of printing, writing, engraving, and photography.

Not only is this a fascinating game from the standpoint of the experience gained, but *Technique* brings its men into close friendships and into contact with the entire personnel of Technology.

It is interesting to note that three of the outstanding traditions of Technology have the name Technique stamped upon them. The Technique Rush is held on Open House day each year. At this time the book is distributed and the new Board is an-

nounced.

The second tradition is the *Technique* Award Cup which the yearbook awards each year to the most prominent track athletes, while the third is the *Tech-Technique* football game. From time immemorial the newspaper and yearbook have battled each other on the gridiron each year to the great enjoyment of everyone concerned.

# The Tech Engineering News

HE past year has been the eleventh since the advent of The Tech Engineering News in the publication field at the Massachusetts Institute of Technology. T. E. N. was conceived in 1919 as a technical supplement to The Tech, but quickly broke away and became a separate organization. It is now an engineering and scientific journal which, though managed and edited by undergraduates, has articles which are written by men who are leaders in their profession, and whose articles are reprinted in papers all over the world. As was first planned, The Tech Engineering News strives to present to the students and faculty the accomplishments of graduates, engineers, and business men of prominence in their professional fields, and at the same time, to publish articles which have a written appeal to the college students.

The organization is divided into two departments. The Business Department, which consists of advertising and circulation, offers opportunities in advertising, sales promotion, salesmanship, and the interviewing of prominent men who are interested in such a paper. Valuable training in office management and organization is obtained due to the fact that T. E. N. has made a special study

of this.

In the Editorial Department there are opportunities for an insight into the professional and technical sides of engineering, In securing articles, men in the Editorial Department get valuable experience and make many worthwhile contacts. This Department has an Editor, Associate Editors, a News Department such as a Pictorial Department, and various assistant editors handling one particular line of work.

Each fall, T. E. N. holds a competition for the positions on its staff. All those who are interested in T. E. N. are invited to visit its office in the basement of Walker Memorial.

## Voo Doo

PHOSPHOROUS is the best friend of every undergraduate at Tech. He has just rounded out ten years of mirth making and his crazy antics have continued to receive the approbation and plaudits of the student body. Each year a little better, Vop Dop has well earned the 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.

### Combined Musical Clubs

HE Combined Musical Clubs consist of the Glee, Instrumental, and Banjo Clubs. The "Techtonians," which is a well-known dance orchestra in Boston, is also part of the organization. This will be the thirty-nint season since the separate clubs were united into one organization. During the school year concerts were given in various schools, clubs, and other organizations around Boston. Previous years the clubs have taken long trips, but in spite of the fact that the finances were not sufficient to take a trip this last year, the clubs showed much spirit and enthusiasm and are hoping to arrange for a trip this year.

Two of the outstanding social events of the Institute every year are the Christmas Concert and Dance, and the Spring Concert and Dance. The Spring Concert is one of the big events of Junior Week. Last year at Pop Concert was held in the Main Hall of Walker Memorial and this

also proved to be very successful.

The management of the clubs consists of two senior positions, General Manager, and Trip Manager; four junior positions, Stage Manager, Business Manager, Publicity Manager, and Treasurer. There are eight sophomore positions and any number of freshmen are allowed to compete for positions. Competitions are opened at the

beginning of the fall term.

The Musical Clubs offer a great deal of social lite to the members. Many of the concerts are given at the various girls' schools around Boston, and usually the concerts are followed by dancing for the entertainment of the men on the clubs. Furthermore, the acquaintances that are made with the men on the clubs are a great benefit to the new student. The musical training and business training for those on the management, are also very valuable.

### Tech Show

ECH SHOW is one of the large Institute activities managed entirely by undergraduates. Competition for positions on the management are started early in the fall, and Sophomores and Freshmen are invited to come out. Candidates for the managing end should report to the Tech Show office on the third floor of Walker Memorial as soon after the beginning of school in the fall as possible. The actual production of the play begins immediately after the Tech Show Smoker, which is held in November. At this time a call for candidates for the cast, chorus, and ballet is issued.

Competitions for lyrics, music, program, and score covers are held during the first term. The scenery and costumes, also designed by undergraduates, are chosen by competition, and as a result, the most modern ideas in staging and

production are presented each year.

Over one hundred students take part in its production each year. Last year the "Snobberies of 1930" was very successful and all of Technology looks forward to the "Tech Show of 1931."

Tech Show is an activity which offers positions for everyone. For those inclined toward business, work, there are positions on the management. Here the candidate has the opportunity to gain some practical knowledge which will help him after graduation. For those artistically inclined. there is the competition for the designs of poster and scenery. For those who can act there are the character parts as well as an opportunity for many in the chorus and ballet besides specialty acts. For those who can play a musical instrument, there is the Tech Show Orchestra.

## **ATHLETICS**

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

President, John H. Genrich Vice-President, James B. Fiske Treasurer, Wyman P. BOYNTON Secretary, Richard H. Vates

THE 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. had 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. The "Straight T" is also awarded to the Varsity Track

Team and usually to the Varsity crew.

# Nineteen Thirty

Crew

Captain, BERTRAM H. MACLEOD Manager, THOMAS B. RHINES Coach, WILLIAM HAINES

THE object of the Technology crew has always been to give the maximum number of men an opportunity to participate in a healthful sport and to develop a Varsity crew of recognized ability in intercollegiate competition. In the six years that Coach William Haines has been at the boat house he has developed each year a Varsity, a Junior Varsity, two 150-pound and four Freshman (both light and heavy) crews of recognized ability. Moreover, this is a sport which everyone can go out for. If one weighs over 150 pounds there are the Freshman Heavies, the Varsity and the Junior Varsity, For men less than 155 pounds, there is the 150-pound Freshman and Varsity Crews, and for those less than 120 pounds there is the position of coxswain on any crew.

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 which is held the first Friday in November. The Varsity squad also begins practice, which continues on the river until cold weather drives them in to work on the rowing machines in the boat house. The Freshman 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 the barge.

and finally in the shells.

This past year, extensive additions have been made to the crew equipment so that a squad of 150 men can be maintained. There are also separate locker rooms and showers for the Freshmen and Varsity. Each year two shells are purchased from Oxford University. Last year the Junior Varsity went through the entire season without defeat, and the Varsity won third place in the famous Pough-keepsie race.

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### Track

Captain, BROR GRONDAL Manager, JOHN M. KIMBLE, IR. Coach, OSCAR L. HEDLUND

RACK is the Institute's major sport and maintains a squad of 200 throughout the school year. Technology is fortunate in having a good twelve lap board track and also a quarter mile cinder track with 220-vard straightaway. After Field Day, track work may be sub-stituted for Freshman Physical Training for the entire twenty weeks which P. T. covers.

During the winter season Varsity and Freshman

teams participate in many of the indoor meets, including the K. of C., B. A. A., American Legion at Boston; the Millrose games at New York, and the I. C. A. A. A. A. games. In addition, the Varsity and Freshman teams compete in dual meets with other colleges and some of the preparatory schools around Boston. The spring season begins in April with the

Annual Interclass Meet, which was won this year by the Sophomores. The Varsity meets the leading Eastern colleges besides competing in the N. E. I. C. A. A., the I. C. A. A. A. A., and the Penn Relays. The Freshman team meets many of the preparatory

schools' and colleges' freshman teams in New England.

Besides the regular Varsity and Freshman meets, other members of the track squad are offered an opportunity to compete in the several handicap and novice meets which are held throughout the year. There are also practice meets with outside teams. Thus everyone out for track is given the advantage of competition regardless of his ability.

As practice for the Field Day relay teams (both Sophomore and Freshman) begins directly after Registration Day, Coach Hedlund wishes to see all candidates at the track house as soon as possible

after school begins.

Cross Country
Manager, Carroll Wilson
Coach, Oscar L. Hedlund

ROSS COUNTRY is one of Technology's leading fall sports. It offers a remarkable opportunity for healthful, 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 advanatge of this 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 both the Varsity and Freshman teams should report to Coach Hedlund at the track house as soon after registration day as

possible.

The season generally consists of five meets, three dual meets, the N. E. I. C. A. A. and the I. C. A. A. A. This schedule includes several trips.

### Basketball

Captain, JOHN T. HARRISON Manager, OTWAY W. RASH, JR. Coach, HENRY B. McCARTHY

THIS sport has reached a high standard at Technology and is now our most popular winter sport. Both Varsity and Freshman teams are maintained under the supervision of 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 near by.

All members of the Freshman squad are allowed to substitute their basketball practice for the physical training required of all first year men.

A call is made soon after the opening of the school year for all men interested in basketball. Practice for both Varsity and Freshmen begins soon after Field Day. There are also openings every year for four live Freshmen on the Management staff.

Gym Team

Captain, STEWART R. KNAPP Manager, JAMES J. ROBSON Coach, EDWARD HINCKS

YM, which is increasing in favor with the colleges, shows promise of being one of the most popular collegiate winter sports. Technology is fortunate in having one of the best equipped gymnasiums in the East. The Gym is located on the top floor of Walker Memorial.

This next season, in addition to the Varsity, a Freshman Team will be formed, the success of which depends on the number of candidates. Practice will start immediately after Registration Day and the following is a list of apparatus used: horizontal bar, flying rings, parallel bars, sidehorse, rope climb, Lumbling mats, and long horse.

Last year the Technology gym team tied with Navy for the National Intercollegiate Gymnasium

championship.

Swimming

Captain, H. TYSON LYKES Manager, HOWARD A. KINZER

Coach, R. DEAN

THE 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 the leading preparatory school 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.

# Nineteen Thirty

# Hockey

Captain, Benjamin Hazeltine, III Manager, George Maynard, Jr. Coach, W. O. Stewart

HE man interested in a real active sport will find in hockey a most attractive proposition. The interest in hockey has been rapidly increasing and it ranks now as the most popular sport of the country. Both schedules include several trips. The teams are coached by a high grade professional. Practice, which begins soon after Field Day, is held at the Boston Arena, which affords an excellent opportunity for development of the teams.

The Freshmen are enabled to learn the game in preparation for the Varsity in coming years, while at the same time they may win their class numerals. The competition for managerial positions

is open to all freshmen.

### Tennis

Manager, ROBERT B. FOLLANSBEE

THE management arranges a Fall Tournament for all those in the Institute. The winner of this tournament receives a replica of the Fall Tournament Cup. upon which his name

is inscribed.

Freshman squad begins practice on the courts behind "The Coop" in the spring as soon as the weather permits. The varsity, which practices at the Oakley Country Club in Belmont, have matches with the leading Eastern colleges besides entering the New England Lawn Tennis Association matches, which are held at the Longwood Cricket Club each year. The freshmen meet the best college freshman and preparatory school teams in New England. There is also a Second Varsity Team formed which meets preparatory schools and the corresponding teams of other colleges.

Boxing

Captain, CARL W. ORLEMAN Manager, GERARD B. DAVIS Coach, THOMAS R. RAWSON

BOXING, one of the Institute's youngest sports has, in the seven years since its establishment, become one of our most popular forms of athletics. Practice begins directly after Field Day and is held in the Hangar Gymnasium. The coach is desirous of seeing all candidates at the first practice in order to begin at once with the work.

The Varsity team meets the leading Eastern colleges besides competing in the Intercollegiates. The Freshmen have matches with many freshman

and preparatory and high school teams.

Under the Coach's direction, the candidates obtain an excellent opportunity to develop and quicken both mind and body and find boxing a real man's sport.

Fencing

Captain, RALPH HAMILTON Manager, CHAUNCEY C. DAY Coach, JOHN ROTH

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 freshmen

and preparatory and high school teams.

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

## Wrestling

Captain, ROBERT AXFORD Manager, KENNETH H. KLOPP Coach, BRIDSON GREENE

RESTLING, one of the oldest, has now become one of the most important winter sports at the Institute. The team meets many of the strongest teams in the East, In the New England Intercollegiates, competition is offered for a second team in the Intercollegiates with

corresponding teams of other colleges.

Not only to upperclassmen but to the first year men, wrestling offers a variety of opportunities. The substitution of this sport for the required physical training in the gymnasium offers not only an enjoyable exercise, but is of great assistance to an all round physical development. Practice begins directly after Field Day and is held in the Hangar Gymnasium.

## Soccer

Captain, SAMUEL G. RYAN Manager, BYRON JAMES Coach, WILLIAM R. WELCH

SOCCER, in its eighth season of supporting a varsity team is one of the most popular fall sports at Technology. Practice begins about a 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 and May in order to line up material for the coming season. One or two practice games are usually arranged. The new field in back of the "Coop" has been put into condition and is one of the finest fields in New England. The coach is one whose interest and enthusiasm are second only to his ability to produce winning material in the form of a team.

## Rifle Team

Captain, KENDALL CLARK Manager, JOHN C. LYON Coach, CAPTAIN PHILLIPS

THE 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 which is composed of the best college teams in the country.

The Varsity schedule includes the best teams in the East while the Freshmen, under the direction of the R. O. T. C. have a similar schedule with the best Freshman and preparatory school teams in the country. The R. O. T. C. insignia is

awarded to members of the Rifle Teams.

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 April.

### Lacrosse

Captain, O. GLENN GOODHAND, JR. Manager, JAMES MERRITT Coach, R. T. SAUERWIEN

ACROSSE was granted provisional recognition at M. I. T. last year. Freshman and Varsity teams were organized and a schedule arranged with New England colleges and clubs. Lacrosse is a fast and interesting game of Indian

Lacrosse is a fast and interesting game of Indian origin. There are twelve 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.

## Nineteen Thirty

# Golf

Captain, RICHARD H. YATES Manager, F. O. MERCHANT

A Sthe aim of the Institute is to provide a sport for everyone, a golf team is included among the many other athletic teams at Technology. Golf is a sport which one can always find enjoyable, from college days until long whiskers and rheumatism. It is a sport which is very popular with business men. This is another advantage for it offers an opportunity for you in later life to associate with the big boss on the links. Moreover, many a business deal is made on a golf course.

At Technology, the golf team is very fortunate in obtaining the use of the links at a nearby country club. Those interested in golf should see the manager at the M. I. T. A. A. office (located on the third floor of Walker Memorial) as soon after the beginning of school as possible in order that fall practice

may begin at once.

### Class Teams

BESIDES the regular Varsity and Freshman Teams described on the foregoing pages, tute. There are several class teams at the Institute. There are the Sophomore and Freshman Football, Relay, and Tug-of-War teams and crews, all of which compete in the annual Sophomore-Freshman contests held on Field Day, the first Friday in November. All men in the Sophomore and Freshman classes are eligible for these four teams. The candidates should report as soon as the call is issued at the beginning of school.

In addition to the Field Day sports, there are

two annual Interclass Track meets, one in the winter and one in the spring. This offers an opportunity for all track men to enjoy the advantages of competition in a meet as all men in the Institute

are eligible.

Another spring class team is the Freshman Baseball Team which plays preparatory, high school and

other freshman teams.

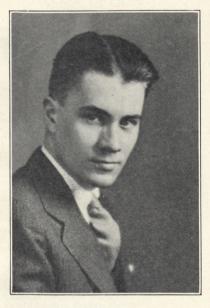
In crew, there is the annual Richards' Cup Race which is held every spring in May. Each class can enter one crew in the race, the winning class is inscribed on the Cup which was given by Professor Richards. All men in the Institute are eligible for these crews, except those on the Varsity, Junior Varsity, 150-pound Varsity, and the First Freshman Crew. Candidates for these crews should report to the boathouse as soon as possible in the second term.

# Massachusetts Institute Track Records

Event	Record	Holder	Year Made		Collegiate Records
100-yard dash	10 1-5 s.	R. S. Franklin	1903	9 4-5 s.	9.4 s.
		C. W. Loomis	1915		
		T. W. Bossett	1918		
		W. Rollins	1919		
		T. P. Spitz	1921		
		J. S. Wiebe	1927		
220 with turn	22 s.	C. W. Gram	1909	22 s.	
220 yard straight	22 s.	C. W. Gram	1909	21 2-5 s.	20.6 s.
		D. P. Jeppe	1924		
440-yard run	50 s.	D. P. Jeppe	1924	48 4-5 s.	47 2-5 s.
880-yard run	1 m. 55 s.	G. J. Leness	1925	1 m. 54 2-5 s.	1 m. 52 1-5 s.
1-mile run	4m. 24 4-5 s.	R. G. Brown	1915	4 m .18 3-5 s.	4 m. 14 2-5 s.
2-mile run	9 m. 35 4-5 s.	F. L. Cook	1915	9 m. 29 s.	9 m. 17 4-5 s.
120-yard hurdles	15 1-5 s.	H. G. Steinbrenner	1927	15 1-5 s.	14 2-5 s.
220-yard hurdles	23 9-10 s.	H. G. Steinbrenner		24 s.	23 s.
Shot put	43 ft. 10 1-2 in.	B. Grondal	1930	47 ft. 10 1-2 in.	52 ft. 3-4 in.
Hammer throw	158 ft. 6 in.	C. G. Dandrow	1921	168 ft. 11 in.	181 ft. 6 1-2 in.
Discus throw	128 ft. 3 3-5 in.	M. Gray	1928	148 ft. 11 in.	160 ft. 9 3-4 in.
High jump	6 ft. 5-8 in.	C. E. Coon	1930	6 ft. 1 1-8 in.	6 ft. 8 1-4 in.
Broad jump	22 ft. 8 1-4 in.	J. S. Weibe		23 ft. 10 1-4 in.	25 ft. 10 7-8 in.
Javelin	178 ft. 11 7-8 in.	J. R. Robertson	1930	188 ft. 2 7-8 in.	216 ft. 7 in.
Pole Vault	12 ft. 9 in.	L. M. Sanford	1925	12 ft. 6 1-4 in.	14 ft.

# Freshman Track Records

Event	Holder	Year Made	Record
100 yards	J. S. Weibe, '27	May 27, 1924	10 1-5 s.
220 yards	A. P. Kauzman, '27	May 17, 1924	23 2-5 s.
	U. F. Soisalo, '33	May 15, 1930	23 2-5 s.
440 yards	A. D. Smith, '23	May 15, 1920	50 3-5 s.
880 yards	F. L. Plaisted, '23	May 15, 1920	2 m. 1 2-5 s.
1 mile	E. E. Chute, '28	May 9, 1925	4 m. 36 1-5 s
120-yard high hurdles	H. G. Steinbrenner, '27	May 24, 1924	16 2-5 s.
220-vard low hurdles	H. G. Steinbrenner, '27	May 24, 1924	25 4-5 s.
High jump	C. E. Coon, '33	Feb. 22, 1930	6 ft. 5-8 in.
Broad jump	U. F. Soisalo, '33	Feb. 22, 1930	21 ft. 3-4 in.
Pole Vault	R. Jack, '28	April 20, 1925	11 ft. 2 in.
12-pound shot	B. Grondal, '31	April 21, 1928	47 ft. 2 in.
12-pound hammer	F. Glantzberg, '27	May 3, 1924	162 ft. 4 in.
Discus	P. Hardy, '31	May 2, 1928	125 ft. 6 in.
Javelin	J. A. Robertson, '32	May 24, 1929	167 ft. 3 in.



JOHN B. HUTCHINS President, Technology Christian Association



# TECHNOLOGY CHRISTIAN ASSOCIATION

# Foreword

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. There is no membership fee, but every undergraduate and faculty member is given a chance to contribute at a certain time once a year. The Advisory Board maintains the secretaries and office assistants, and advise regarding the organization's policy. Active direction of the Association's affairs, however, is in the hands of the Executive Committee and Cabinet.

The T. C. A. now stands as a symbol of one of the most influential student organizations at Technology. The Cabinet consists of eighteen men. In addition, last year over one hundred and fifty volunteer workers took part in this activity. Previously the organization has been divided into departments with sub-divisions. But this year each department has its own representatives on the

Cabinet.

# Advisory Board

Percy R. Ziegler, '00, Chairman; Horace S. Ford, Treasurer; Leicester F. Hamilton, '14; Frank L. Locke, '86; Rev. Sidney Lovett.

# Officers and Executive Committee

President, John B. Hutchins, '31
Vice-President, Louis S. Morse, Jr., '31
Treasurer, Tinsley W. Rucker, III, '31
General Secretary, Wallace M. Ross
Employment Secretary, Pennell N. Aborn
Cabinet Representa tives, Bror Grondal, '31, Richard R. Hall, '32

# Deputations and Meetings

Fred R. Henderson, '32

To churches, Y. M. C. A.'s and Preparatory Schools, men are sent out during the year to talk on various subjects. During the last school year more requests for these deputations were received than ever before. It is the purpose of this division also to have different individuals who know well their subject speak along the line that will be instructive as well as interesting to the student body.

# Church Relations

W. Bennett Sharp, '33

The object of T. C. A. is not to set up a definite religious organization of its own, but to have its organization be an ally of the church. Boys are connected with churches before coming to the Institute. These boys as men will be connected with churches after graduating. It is most natural to desire that relationship which fellows had and will have with churches should therefore continue while the man is here at the 'Stute. This division aims to further the above mentioned relationship.

# Foreign Students

Bror Grondal, '31

It is said that the Institute has the distinction of having the second largest number of foreign students of any institution in this country. Last year 228 were in attendance from 32 different countries. It is the object of this division to serve in the capacity of "big brother" to any foreign students. Personal interviews and group get-togethers help to bring these students into closer contact with the rest of the Institute.

# Boys' Work

Willis S. Hutchinson, '32

Opportunities to man boys' clubs in settlement houses, Hi-V's, Boy Scouts, etc., in Greater Boston are numerous, and the Association is asked to cooperate in this most important work. Last year over fifty Tech men volunteered for this work. The outstanding project along this line last year, was the "Tech Night" at the Burroughs Newboys' Foundation, at which prominent Technology activity men and athletes took charge.

# Social Work and Infirmary

Clarence W. Farr, '33

Many requests come in from various social organizations in Cambridge and Boston for assistance in social work or entertainment for some special occasion. The T. C. A. has always helped as much as possible to be of service.

Subscriptions to magazines are given to the Infirmary for those students who are confined to the wards. Visits are also made by representatives of this department to patients confined to the

Infirmary.

# Room Registry and Information

Wendell C. Allen, '33

Supplementing the accommodations which the Institute provides by dormitories, are rooms which men may obtain in private homes. For the days immediately preceding and following registration day, this serivce will be given at the left of the lobby in Walker Memorial.

The information cards which are filled out by Freshmen and transfers, and which may be seen by activities, fraternities, etc., are in this division of work. A time-table rack in which time-tables of

## The Handbook

about 50 different roads are kept, in also under this division's supervision. Before the Christmas holidays and other school vacations, the different railroads and steamship companies send agents to the Association's offices to sell tickets to the students. The bulletin board outside the office door is changed each morning.

# Book Exchange

T. Stewart Varey, '32

The Association maintains a book exchange where students may leave second-hand books, drawing boards, instruments, etc., for sale at two-thirds the original price paid for the same.

# Theatre Service

John Streng, '33

A ticket service has been maintained by the Association for the past two years. Tickets may be obtained for all theatres at box office prices, thus saving the student the trouble of going to Boston to the respective theatres for them. This is one of the fastest growing services of the organization, over-thirteen hundred orders being taken last year.

# .Freshman Service

John Lawrence, '32

Upperclassmen are each Spring asked to serve as advisers for three or four freshmen. The freshman is notified concerning his adviser about September 1st. In the past this was found to be very helpful to the new man. During the year a Freshman Cabinet is organized, consisting of the new men doing T. C. A. work. The annual Freshman camp is also in charge of this department.



WALLACE M. ROSS General Secretary



# Cabin

W. Penn-Gaskell Hall, '31

The most recent undertaking of the Association has been to build a cabin for the use of any Technology organizations for weekend outings during the entire school year. The cabin was completed this summer, and is located on the property of the Cambridge Y. M. C. A. at Lake Massapoag where the annual Freshman Camp is held.

# Employment Bureau

Pennell N. Aborn, Secretary

This department offers assistance in finding remunerative work to those students who must rely on their own resources for part of their expenses while at the Institute. Last year men reported that work they obtained through the Bureau amounted to something over \$69,000.

Any students coming to the Institute, who need some outside work to help pay their way should get in touch with Mr. Aborn as soon as possible.

# Handbook

Louis S. Morse, Jr., '31, General Manager Richard R. Hall, '32, Managing Editor Stanley S. Rudnick, '32, Business Manager

This is the thirty-fourth year that the Technology Christian Association has published THE HAND-BOOK. This year's edition is thought to be unusually attractive. An enlarged activity directory also makes the book more valuable. THE HANDBOOK is given to all Freshmen and transfers about September 1st, and to any upperclassmen who desire copies.

## Blotter

Charles E. Quick, '33

The object of the 19 x 24 desk blotter is to provide a medium for advertisers who wish to be before Tech men and also to furnish a handy calendar, fraternity telephone numbers, Institute calendar, and an activity telephone directory. Said blotter may be obtained from the T. C. A. office at the opening of the term.

# Advisory Board Solicitation

Thomas M. Chadwick, '33

Overhead in the form of salaries for direction of the work comes from a mail solicitation of Faculty, Corporation, some parents, and some alumni. This division has charge of sending out letters to the above mentioned groups.

# Advisory Board Receipts

Robert G. Holt, '33

Money received from the letters sent out comes directly to the treasurer of the Advisory Board, Horace S. Ford. Records, however, concerning the amounts received, and also acknowledgments, are attended to by this division.



PENNELL N. ABORN Employment Secretary



# **FRATERNITIES**

Alpha Kappa Pi (AKII). 44 Francis St., Brookline. Founded 1921 at Newark College of Engineering. Kappa Chapter. Established 1929. 11 chapters.

Regent 4666-W.

Alpha Tau Omega (ATD). 37 Bay State Road, Boston. Founded 1865 at Virginia Military Institute. Beta Gamma chapter. Established 1895. 91 chapters. B. H. MacLeod, President. Commonwealth 8029.

Beta Theta Pi (BOII). 241 Kent Street, Brookline. Founded 1839 at Miami University. Beta Upsilon chapter. Established 1913. 86 chapters.

Otto C. Kohler, President. Regent 7710.

Chi Phi (XΦ). 44 The Fenway, Boston. Founded 1824 at Princeton University. Beta chapter. Established 1890. 30 chapters. John F. Langmaid Jr., President. Kenmore 4187.

Delta Kappa Epsilon (ΔKE). 403 Memorial Drive, Cambridge. Founded 1844 at Yale University. Sigma Tau chapter. 46 chapters. University

8150.

Delta Psi (ΔΨ). 428 Memorial Drive, Cambridge. Founded 1847 at Columbia University. Tau Chapter. Established 1899. 9 chapters. Daniel T. Cox, President. University 5667.

Delta Tau Delta (ΔΤΔ). 255 St. Paul Street, Brookline. Founded 1859 at Bethany College. Beta Nu chapter. Established 1899, 74 chapters.

Robert B. Semple, President. Regent 8172.

Delta Upsilon (ΔΤ). 526 Beacon Street, Boston. Founded 1834 at Williams. Technology Chapter. Established 1891. 54 chapters. Back Bay 4375. Horace B. Preble, Pres.

Kappa Sigma (KΣ). 33 Bay State Road, Boston. Founded 1869 at University of Virginia. Gamma Pi chapter. Established 1914, 108 chapters.

James B. Fiske, President. Back Bay 1568.

Lambda Chi Alpha (ΛΧΑ). 441 Beacon Street, Boston. Founded 1909 at Boston University. Lambda Zeta Chapter. Established 1912. 80 chapters. J. K. Jamieson, Jr. President. Back Bay 7197.

Phi Beta Delta (ΦΒΔ). 527 Beacon St., Boston, Founded 1912 at Columbia University. Theta Chapter, Established 1920, 32 chapters, Commonwealth 7775.

Phi Beta Epsilon (DBE), 400 Memorial Drive. Cambridge. Founded 1890 at Technology. Local.

University 2341.

Phi Gamma Delta (ΦΓΔ). 28 The Fenway, Boston. Founded 1848 at Washington and Jefferson College. Iota Mu chapter. Established 1899. 69 chapters. Kenmore 8452. J. B. Birdsell, Pres. Phi Kappa (ΦΚ). 278 Commonwealth Avenue,

Boston, Founded 1889 at Brown University, Eta chapter. Established 1918. 23 chapters. Common-

wealth 8468. J. J. Alkazin, Pres.

Phi Kappa Sigma (ΦKΣ). 530 Beacon Street, Boston. Founded 1850 at University of Pennsylvania. Alpha Mu chapter. Established 1903, 38 chapters, Ralph H. Davis, President, Back Bay 1369.

Phi Lambda Alpha (ΦΛΑ). 204 Bay State Road. Boston. Founded 1921 at New York. Beta chapter, Established 1921, 5 chapters, Back Bay

8774

Phi Mu Delta (ΦMΔ). 330 Bay State Road, Boston. Founded 1918 at University of New Hampshire. Nu Delta chapter. Established 1922, 14 chapters. Regent 6784. E. G. Collado, Pres.

Phi Sigma Kappa (ΦΣΚ). 487 Commonwealth Avenue, Boston. Founded 1873 at Massachusetts Agricultural College, Omicron chapter, Established

1902. 51 chapters. Back Bay 2755.

Psi Delta (ΨΔ). 326 Bay State Road, Boston. Founded 1922 at Technology. Local chapter. Aspinwall 9852. A. R. Sims, Pres.

Sigma Alpha Epsilon (ZAE). 484 Beacon Street, Boston. Founded 1856 at University of Alabama. Mass. Iota chapter. Established 1892. 103 chapters. William Holst, Jr. President. Back Bay 1935 and 3560.

Sigma Alpha Mu (EAM). 338 Bay State Road, Boston. Founded 1909 at College of the City of New

Vork, Xi chapter, Established 1917, 35 chapters,

Regent 3833. Willis Fleisher, Ir., Pres.

Sigma Chi (XX). 532 Beacon Street, Boston. Founded 1855 at Miami University, Alpha Theta chapter, Established 1882, 88 chapters, Carroll D. McCulloh, President, Commonwealth 8095.

Sigma Nu (SN). 259 St. Paul Street, Brookline. Founded 1869 at Virginia Military Institute. Epsilon Theta chapter. Established 1922. 95 chapters. Philip Van S. Kleinert, President. Regent

4475.

Sigma Omega Psi (ΣΩΨ). 562 Newbury Street, Boston, Founded 1910 at the College of the City of New York, Xi chapter, Established 1922, 19 chapters, Jacob Gordon, President, Commonwealth 7666.

Tau Delta Phi (ΤΔΦ). 38 The Fenway, Boston. Founded 1910 at College of the City of New York. Eta chapter, Established 1920, 18 chapters, Jack Weprin, President. Commonwealth 8073.

Tau Epsilon Phi (ΤΕΦ). 158 Naples Road. Brookline. Founded 1910 at Columbia University. Xi chapter. Established 1910. 32 chapters. Regent 6793.

Theta Chi (OX), 528 Beacon Street, Boston, Founded 1856 at Norwich University, Beta Chapter. Established 1902, 45 chapters, Kenmore 3249,

C. R. Binner, Pres.

Theta Delta Chi (ΘΔX). Founded 1847 at Union College. Theta Deuteron chapter. Established 1900.

30 chapters.

Theta Xi (0Z). 66 Bay State Road, Boston. Founded 1864 at Rensselaer Polytechnic Institute. Delta Chapter. Established 1885, 31 chapters. Back Bay 5907.

# HONORARY SOCIETIES

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

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

Beaver Club, Junior Honorary Society. Members chosen from the activity highlights of the Sophomore class.

Calumet Club, Honorary Society of the M. I. T. A. A. Membership extended for exceptional work in athletics.

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

Frieze and Cornice, Honorary Architectural Society. For Honor men in the school of architecture.

**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.

Masque, Honorary Society of Tech Show. Membership extended for exceptional service to Tech Show.

Mortar and Ball, The national coast Artillery Honorary fraternity. Members are chosen from among those taking the advanced work in this branch of the service.

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

Pi Delta Epsilon, National honorary journalistic Fraternity. This is the highest honor that can be won at Tech in Journalism.

Quadrangle Club, Sophomore-Freshman Society. An organization to promote closer relationships among the underclasses. Members chosen from the activity high-lights of the Freshman Class.

Scabbard and Blade, National Military Fraternity choosing its members from the students in the advanced R. O. T. C. courses.

**Scroll**, Honorary Society of the Tech Engineering News. Its members are chosen from the managing board of this publication.

Stylus, Honorary Society of The TECH. Reward given to all candidates for The TECH.

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.

Theta Tau, a national professional engineering fraternity. Chooses men most likely to succeed in their profession.

Walker Club, Senior Social Club. Members chosen from the activity high-lights of the Junior Class.

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

# CONSTITUTION

of the

# Massachusetts Institute of Technology Undergraduate Association

Preamble

HEREAS, it seems wise that all activities among the students of the Mass. Inst. Tech. should be so organized and conducted as to work for the good of the welfare and renown of the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, it is fitting that some central organization, chosen and controlled by the student body, have and exercise general powers of supervision over all individual activities insofar as they

affect the student body as a whole.

To this end it seems necessary that the entire body of undergraduates should be brought together as a unit in order that legislation and executive powers may be transferred upon such a central body as is mentioned in the preceding paragraph. It is, therefore, enacted by the undergraduates attending the MASSACHUSETTS INSTITUTE OF TECHNOLOGY that such a general organization should be effected and to this end the following constitution governing the student body is adopted:

## Constitution

## ARTICLE I

Name of Organization

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

# ARTICLE II

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 the same are conducted in the best interest of the student body as a whole and to the credit of the MASSACHU-SETTS INSTITUTE OF TECHNOLOGY.

# ARTICLE III Membership

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

## ARTICLE IV 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 INSTI-TUTE COMMITTEE.

Section 2. All acts and decisions of the Institute Committee shall be considered to be the facts 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, they shall be presented to the Association for ratification or rejection, as provided in Section 3.

Section 3. On receipt of a petition as provided in 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 within fourteen days but not earlier than seven days, after the issue of such a call.

Two-thirds of the ballots cast shall be necessary to annul any act or decision of the Institute Committee.

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; and one from each of the following undergraduate organizations:

Dormitory Committee
M. I. T. A. A.
Musical Clubs
Tech Show
Technique
Technology Christian Association
The Tech
The Voo Doo
Technology Engineering News
Combined Professional Societies
Walker Memorial Committee
Architectural Student Council
Budget Committee
Elections Committee
Point System Committee

Section 5. Any other organization now existing or hereafter duly organized by the undergraduates may, by two-thirds vote of the Institute Committee be granted representation thereon, and 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 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 Consti-

tution.

# ARTICLE VI

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 submitteed by the Institute Committee to the entire body for consideration and adoption. Full notice of such proposed amendment shall be submitted to the entire student body for consideration by publication or posting at least thirty days before the day set for voting; two thirds of the votes cast shall be necessary to adopt the same, provided twenty-five per cent (25%) of the total membership vote.

# By-Laws

ARTICLE I

The name of this organization shall be the Institute Committee.

ARTICLE II

The function of this committee shall be as provided for in Article IV, Section 1, of the Constitution.

## The Handbook

## ARTICLE III

Section 1. The membership of the Institute Committee shall consist of three members of each class of whom one shall be the class president, the other two shall be members of the class elected at large by the class; and shall furthermore consist of one representative from each Undergraduate Organization to whom a seat has been granted as hereinafter provided; and, in addition, the chairman of the various standing committees of the Institute Committee who are granted ex-officio membership of the Institute Committee.

Section 2. The class members shall attend the first meeting of the Institute Committee after their election. They shall not have the right to vote on any questions at this meeting except the election of officers of the Institute Committee. In this election the superseded members shall not have the right to vote. At the adjournment of this meeting the retiring class representatives shall give up their seats to the new representatives.

Section 3. All members of the Institute Committee shall assume office at the organization of the new Institute Committee in May and hold same until the last meeting of that Institute Committee. Organizations changing offices 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 custom 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

Section 1. The officers and Executive Committee, as provided for in Article V, Sections 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 following the election of the representatives from the classes. Voting in this election shall be in accordance with Article III, Section 2 of these By-Laws.

Section 2. Standing committees and other committees shall be organized, and shall operate in accordance with the REGULATIONS OF COMMITTEES.

#### ARTICLE V

Section 1. It shall be the duty of the President to preside at all meetings of the Institute Committee and of the Executive Committee. It shall be his further duty to sign all checks issued by the Institute Committee.

Section 2. The Vice-President shall assume the duties of President in case of the absence of the latter. In case of his resignation, however, the Vice-President of the Institute Committee shall become President of the Institute Committee, or his successor shall be elected by the Institute Committee. He shall assume the responsibility of collecting and filing reports of the four classes of sub-committees of the Institute Committee as provided in Article XI.

Section 3. The Secretary shall keep all records of the Institute Committee and shall send notices of all meetings to all members of the Committee.

Section 4. The Treasurer shall receive, be responsible for, and disburse all moneys of the Institute Committee and all of its sub-committees 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 by the student body, and shall present to the Institute Committee for action such matters as are deemed important, together with the facts pertaining thereto.

#### ARTICLE VI

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. Within three days after having received the written request of ten members, the President shall call a meeting of 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.

Reports of Standing Committees.
 Reports of other committees.

6. Old business.

7. New business.

Section 4. Roberts' Rules of Order shall cover all procedures of this Committee except those covered by the Constitution and By-Laws.

#### ARTICLE VII

No meeting shall begin or continue unless at least a quorum of two-thirds the total membership is present.

ARTICLE VIII

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, and if any organization has consecutively two proxies and an absence in any order, that organization shall-forfeit its right to representation on the Committee. which representation shall not be granted until the Institute Committee has been in receipt of 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 IX

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 50 students taking active part in it during one Institute term, or must have traditions 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 all members present being required.

ARTICLE X

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. 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 by the Institute Committee

The organizations so recognized are Section 2. the organizations classified as Class A and Class B activities in Article IV, Section 7, of the Budget Committee Constitution, and the following:

Baton Beaver Club Boat Club

# JOIN TECHNOLOGY BRANCH FIRST

## BUY AT YOUR STORE AND GET YOUR DIVIDEND

To get the best results every Tech man should become a member of the "COOP" before he begins to buy any of his supplies. It costs one dollar to join for one college year. You get a membership ticket with a number. Tell the salesman your number every time you buy anything that costs 25c or more at Technology Branch, the Barber Shop, or the Main Store at Harvard Square. The total credited to your number on June 30 is the amount on which your dividend is paid. The profits are divided among the customers who join.

Dividend Checks for last year's purchases will be ready for distribution in October. The dividend paid on last year's business was 10% on cash purchases and 8% on charge purchases.

Checks are cashed, charge accounts opened (for "COOP" members only).

The "COOP" is the official source of required textbooks, drawing instruments and supplies in every course.

Technology Branch Harvard Cooperative Society 76 Massachusetts Avenue

# TECHNOLOGY BRANCH BARBER SHOP

AT

80 Massachusetts Avenue

IS A

# "COOP" ENTERPRISE

This means that it is your own Barber Shop run for you.

Our four barbers are hired to serve you—most of them have worked for Tech men for years.

We are operating a first class sanitary shop and want your trade.

You get credit toward your dividend on the money you spend.

Give your "COOP" number when you pay twenty-five cents or over.

We have a boot black in the shop and two telephone booths.

When you want something come to the

"COOP"

# The Handbook

Calumet Club Catholic Club Chess Club Chinese Students' Club Cleofan Drama Shop Debating Society Frieze and Cornice Hexalpha Masque Menorah Society M. I. T. Post Society of American Military Engineers Osiris Outing Club Polo and Riding Club Radio Society Rifle Club Scroll Squash Racquets Club Stylus Quadrangle Club

Walker Club

Woopgaroo Section 3. Any organization of a temporary character wishing to appear in public as an M. I. T. undergraduate organization may be granted this privilege for a period of one month by a two-thirds vote of the Institute Committee provided a constitution is submitted to the Institute Committee.

#### ARTICLE XI

There shall be three classes of sub-committees of the Institute Committee; all of which shall submit Formal Reports except that temporary committees may submit informal reports when authorized by the President of the Institute Committee, and the Senior Week Committee shall submit financial reports and may submit the minutes of its meetings and the meetings of its sub-committees. The reports of the committees in sections "a", "b", and "c" shall be submitteed in sections "a", "b", and "c", shall be submitteed

to the Institute Committee at its second meeting after the sub-committee ceases to function. The Senior Week Committee shall submit its report at the first meeting of the Institute Committee the following school year.

(a) Standing Committees, with the exception of the Field Day, Junior Prom and Senior Week Committees, function throughout the entire year and carry out routine duties of the Institute Com-

mittee. The Standing Committees are:

Budget Committee
Elections Committee
Point System Committee
Walker Memorial Committee
Field Day Committee
Junior Prom Committee
Senior Week Committee

Student Curriculum Committee

(b) Special Committees which function every year may carry out certain details of the business of the Institute Committee. There are at present two of these Committees, the All-Tech Smoker Committee, and the Tech Circus Committee.

(c) Temporary Committees which are appointed from time to time perform such duties as the

Institute Committee shall specify.

ARTICLE XII

Proper changes of these By-Laws may be made by a vote of two-thirds of the members of the committee, at any meeting of that body, providing three days' notice of the intended change has been given to all members of the committee.

# 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 two associates, one of whom shall be the Treasurer of the M. I. T. A. A., and the other a member of the student body at large and shall further consist of the Bursar of the Institute in an advisory capacity.

Section 2. The member of the Budget Committee from the student body at large shall be elected by the Executive Committee of the Institute Committee, subject to the ratification of the Institute Committee, at the second meeting of that

committee 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. To 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.

3. To submit copies of all approved budgets of athletic organizations spending money of the Undergraduates' Dues to the Treasurer of the

M. I. T. A. A.

4. 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.

5. To receive and permanently file financial reports of Group A and B activities at the end of

the fiscal year of each, such annual reports to be received not later than the second meeting of the Institute Committee following the close of the fiscal year of each activity. 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 shall be imposed for each late report.

6. The annual dues for each organization coming under the jurisdiction of the Budget Committee shall be one dollar payable Jan. 1st, except that organizations financed by Undergraduate Dues shall pay no dues to the Budget Committee. A fine of five dollars shall be im-

posed for late payment of dues.

7. For the purpose of defining the group of activities mentioned in Section 5 such grouping shall be as follows:

Group A
The Institute Committee
The Four Classes
M. I. T. A. A.
Musical Clubs
T. C. A.
Technique
Tech Show
T. E. N.
The Tech
Voo doo

Group B

Architectural Society
Combined Professional Societies
Aero. Eng. Society
Chemical Society
Civil Engineering Society
Corporation XV
Mechanical Engineering Society
M. I. T. Branch A. I. E. E.
Naval Architecture Society
Dormitory Committee

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M. I. T. Post Army Ordnance Association Photographic Society

Pi Epsilon

Sedgwick Biological Society

Dorclan

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 Undergraduate Dues, previous to the approval of such expenditures by the Budget Committee.

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

Dues.

Section 3. Notification of such fines shall be sent to each member of the Executive Committee of the

Organization fined.

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

ARTICLE VI

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

# Elections Committee

ARTICLE I

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 an 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

Committee subject to the ratification of the Institute Committee at the second 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 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 and Junior Prom Committee Elections shall be the preferential system of voting. Senior Week Elections shall be by the Hare-Spence System with the Marshals

elected by 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 for an office in the class in which he is a voter except that only those who were members of the

## The Handbook

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 for ..... of our Class.

(Sponsors' signatures)

I hereby accept the nomination

(Signature of Nominee).....

For all Class elections there shall be the signatures of ten sponsors on the nomination blank. For the Junior Prom Committee Election and Senior Week Committee Election, there shall be the signatures of five sponsors on the nomination

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

sponsors.

Section 6. Nomination papers must be deposited 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. The ballot shall contain a complete list of nominees, grouped according to offices and arranged in alphabetical order. It shall be perforated along a line one and one-half inches from the bottom edge. The lower portion shall contain a space for the voter's signature and shall have a number corresponding to that on the upper portion. Each ballot shall be numbered consecutively.

Section 8. The Chairman shall have the required number of ballots in his possession at least twenty-four 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 Class elections shall be held on the Wednesday of the first or second week

following Field Day.

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

(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 Election shall be held on the second or third Wednesday following

Junior Week.

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 5.30 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 the 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 when either the Preferential or Hare-Spence System is used 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 sominee 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.

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 he

deems necessary except that such additional rulings 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 and any attempts to form voting blocks, etc.,

shall be prohibited.

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 first 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 re-maining candidates in accordance with the second choice indicated on each ballot. Enter these total figures in the second column.

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

jority.

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.

Counting by Hare-Spence System

As in the Preferential system, the ballots are sorted into piles in accordance with the first choices indicated thereon. All candidates having x or more votes, where x represents the total number of votes cast divided by the number to be elected, are declared elected. Their ballots are redistributed according to the highest choice on the ballots for any remaining candidate, and all candidates having a total number of ballots on their pile equal to or greater than the x number defined above are elected. This process continues until the requisite number have been elected.

Section 20. Three candidates are to be elected as Class Day Marshals, and twenty-five 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.

### Point System Committee

ARTICLE I

The name of this Committee shall be the Point System Committee.

ARTICLE II

Section 1. The purpose of this Committee shall

be to enforce and regulate the Point System.

Section 2. The purpose of the Point System shall be to prevent an undergraduate from undertaking too many activities to the detriment of himself or any of the activities.

ARTICLE III

Section 1. This Committee shall consist of a Chairman, who shall be an ex-officio member of the Institute Committee, and of three associates. The chairman shall be a member of the Senior Class; the associate members of the student body at large.

Section 2. The positions on this Committee shall be filled by election of the Executive Committee of the Institute Committee subject to ratification of the Institute Committee at the second meeting of that Committee following the class elections.

ARTICLE IV

Section 1. This Committee shall see that every position in every undergraduate organization is

assigned a definite number of points.

Section 2. Before a new office is created in any undergraduate organization permission must be had from the Institute Committee to create such an office, and the points must be assigned by the Point System Committee and approved by the Executive Committee.

ARTICLE V

No person may be allowed to carry more than ten points unless permission is given him to do so by a two-thirds vote of the members present at any meeting of the Institute Committee. This shall in no way prevent a person from being a member of an athletic team even though his total points exceed ten. No person on probation may hold any office to which points are assigned.

ARTICLE VI

No person may resign from an office given him by popular election in order to reduce his points to allow him to accept a subsequent position.

ARTICLE VII

The Institute Committee may not approve the election or appointment of any person to any office unless the matter has been investigated and approved by the Point System Committee and unless the report of the organization's elections is signed by the Chairman of the Point System Committee.

ARTICLE VIII

Section 1. A record of all persons in activities must be kept by the Point System Committee, and a report by this Committee at every meeting of the Institute Committee.

Section 2. The Point System Committee shall hold a meeting of all its members before each meeting of the Institute Committee and bring all records up to date.

ARTICLE IX

Before the close of the tenure of office of the members of the Point System Committee the points assigned to all positions shall be investigated and any changes which seem advisable shall be referred to the Institute Committee for action. Such action is to take effect with the appointment of a new Point System Committee.

#### ARTICLE X

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

Classes

The points shall be as tollows:

	Sr.	Ir.	Soph.	Fresh.
President	10	9	7	6
Vice-President	1	1	1	1
Secretary	2	2	2	2
Treasurer	3	3	3	3
Institute Committee	5	5	5	5
Executive Committee	1	1	1	1
M.I.:	T.A.	4.		
President				10
Vice-President				2
Secretary				4
Treasurer				
Assistant Treasurer				
Publicity Manager				8
Assistant Publicity Mana	ager.			4
Track Manager				
Sophomore Assistant.				5
Freshman Assistant				4
Cross-Country Manager				
Crew Manager				
Sophomore Assistant.				
Freshman Assistant				4

Basketball Manager	7
Swimming Manager	7
Sophomore Assistant	5
Freshman Assistant	4
Soccer Manager	6
Hockey Manager	6
Wrestling Manager	6
Tennis Manager	6
Boxing Manager	6
Gymnasium Manager	6
Sophomore Assistants	5
Freshman Assistants	4
Rifle Manager	5
Golf Manager	5
Fencing Manager	5 5
Sophomore Assistants	4
Freshman Assistants	3
Class Teams Manager	4
Assistant Manager	
Supervising Manager of Intramural Baseball	2 5
The Tech	,
	10
General Manager	10
General Manager	10 9
General Manager Editor-in-Chief Managing Editor	9
General Manager Editor-in-Chief Managing Editor Business Manager	9 9
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor	9 9 9 8
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor	9 9 9 8 8
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor	9 9 8 8 8 8
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor	99988888
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager	9998888888
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager	99988888888
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor	99988888888
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors	999888888887
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorials	999888888876
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorial Board Assistants to Members of Associate Board	9998888888767
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editors Editorial Board Assistants to Members of Associate Board. Staff Members	999888888876
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorial Board Assistants to Members of Associate Board Staff Members Candidates  Technique	9998888887675
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorial Board Assistants to Members of Associate Board Staff Members Candidates  Technique	9998888887675
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorial Board Assistants to Members of Associate Board Staff Members Candidates Technique General Manager	999888888876752
General Manager Editor-in-Chief Managing Editor Business Manager Business Service Editor News Editor Sports Editor Features Editor Advertising Manager Circulation Manager Make-up Editor Night Editors Editorial Board Assistants to Members of Associate Board Staff Members Candidates  Technique	9 9 9 8 8 8 8 8 8 7 6 7 5 2

Art Editor	8
Features Editor	8
Informals Editor	8
Department Editor	8
Advertising Manager	8
Treasurer	8
Publicity Manager	8
Photographic Manager	8
Staff	6
Candidates	4
Voo Doo	
General Manager	10
Managing Editor	0
Business Manager	8
Treasurer	8
Art Editor	8
Literary Editor	8
Advertising Manager	8
Circulation Manager	8
Publicity Manager	8
Associate Editors	6
Assistant Editors	5
Business Associates	6
	4
Candidates Tech Engineering News	200
General Manager	10
Business Manager	0
Editor-in-Chief	Ó
Advertising Manager	7
Managing Editor	7
Publicity Manager	7
Circulation Manager	7 7
Treasurer	7
Personnel Manager	7
Associate Editor	7
Assistants	
Assistants	3 3
All Candidates	3
Tech Show	
General Manager	10
Director of Production	9
Director of Rusiness	Ó

Treasurer	9
Stage Manager	9
Company Manager	9
Orchestra Manager	9
Publicity Manager	9
Sophomore Assistant Manager	5
Principal cast	6
Minor Cast, Members of Chorus, Ballet.	0
Orchestra	4
Musical Clubs	*
	10
General Manager	10
Business Manager	8
Treasurer	8
Publicity Manager	8
Concert Manager	8
Personnel Manager	8
Stage ManagerSophomore Assistant Managers	8
Sophomore Assistant Managers	8
Freshman Assistant Managers	5
Leaders	6 3 2
Assistant Leaders	3
Members	2
Technology Christian Association	
President	10
Vice-President	4
Treasurer	4
Department Directors	3
Division Managers	2
Institute Committee	-
	0
Treasurer	8
Secretary	5
Members from Classes	3
Walker Memorial Committee	
Chairman	9
Junior Members	6
Sophomore Members	5
Choral Society	
President	5
Vice-Presidents	3
Secretary	2
Treasurer	2

Budget Committee	
Members-at-large	2
Members-at-large	~
Chairman	6
Members	2
Elections Committee	4
Chairman	5
Members	1
Finance Committee	1
a	0
Unior Members-at-large	6
	3
Sophomore Members	3
	-
Chairman	6
Treasurer	2
Other Members	1
Dorm Dance Committee	
Chairman	4
Members	1
Professional Societies	
President	5
Vice-President	2
Secretary	2
Treasurer	2
Members of Governing Board, Directors, etc.	1
Combined Professional Society Executive Commit	tee
Chairman	3
Vice-Chairman	2
Secretary	1
Treasurer	1
Members	1
Representatives on Institute Committee	1
Clubs and Societies	15
President	3
Vice-President	1
Secretary	i
Treasurer	1
Architects' Student Government	
President	5
Class Representatives	2
Secretary	1
	1
Treasurer	1

### Walker Memorial Committee

ARTICLE I

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

ARTICLE II

The purpose of this Committee shall be to regulate the Walker Memorial Building and Naval Hangar Gym.

ARTICLE III

Section 1. This Committee shall consist of a Chairman who shall be ex-officio a member of the Institute Committee and the Executive Committee of the Institute Committee, and six other associates. The Chairman shall be a member of the Senior Class. The remainder of the Committee shall consist of two members of the Junior Class and four of the Sophomore Class during their term of office.

Section 2. At the first meeting of the Executive Committee of the Institute Committee following annual spring class elections, the retiring Chairman of the Walker Memorial Committee shall appoint his successor subject to ratification by the Institute Committee. He shall also recommend at this time, for election to the Walker Memorial Committee, the names of two members of the Sophomore Class who become Juniors 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 this Committee two weeks after school opens in the fall. At the end of this time he shall appoint four Sophomores subject to the ratification of the Institute Com-

mittee.

### ARTICLE IV

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

1. To have charge of the student administration of the Walker Memorial Building and Naval Hangar Gym and to enforce such house rules as are deemed necessary for the proper administration of these buildings.

2. To appoint any sub-committees that seem advisable, subject to the ratification of the Insti-

tute Committee.

 To assign all rooms of the Walker Memorial and Naval Hangar Gym for the use of undergraduate activities and to prevent as far as possible any meetings that will materially conflict with each other.

4. To require the complete plans for any social function to be held in Walker Memorial and Naval Hangar Gym planned by an organization to be submitted in writing and signed by a responsible member of that organization. This report shall be handed in one week previous to date of function. Failure to do so shall incur a fine of five dollars.

5. To levy a fine of one dollar (\$1.00) on any organization which holds a meeting in the Walker Memorial or Naval Hangar Gym unauthorized by the Walker Memorial Committee, the fine to be payable to the Treasurer of the Institute Committee, and to refuse to approve the aplication for reservation of any room in Walker Memorial or the Naval Hangar Gym until this fine is paid.

6. To regulate all affairs which are carried on in the corridors of the Institute buildings to the best interests of the Massachusetts Institute of Technology and to enforce such rules as are necessary for the proper conduct of publicity campaigns

and drives.

#### ARTICLE V

The duties of the Walker Memorial Committee

shall be as follows:

 To have published in THE TECH a schedule of undergraduate events, and to maintain in Walker Memorial a calendar of all undergraduate events on a board provided for the purpose.

2. To procure from all organizations a list of coming events, and to list these events in a book

provided for the purpose.

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. To procure from the organization two complimentary tickets to these functions.

4. To see that the activities' offices are kept clean and in repair, and that any improvements of changes desired by the organizations are made through the Walker Memorial and Naval Hangar

Gym Committee.

5. To enforce all rules relative to the various parts of the Walker Memorial and the Naval Hangar Gym.

6. To co-operate with the Dean, the Superintendent of Buildings and Power, and the Superintendent of dining service in every way possible for the proper administration of the building and gym.

7. To have charge of all publicity campaigns

conducted on the grounds of the Institute.

 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 of the undergraduate

body.

10. To prevent the use of these bulletin boards for commercial interest not connected with the Institute.

11. To maintain a record of the Heads of all

activities.

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

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

### Uniform Class Constitution

ARTICLE I

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

ARTICLE II

Section 1. All persons who on entrance are classified by the Registrar of 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 officers in the Freshman year, the class shall be under the supervision of the Field Day Committee.

Section 2. The Field Day Committee shall be assisted by a General Committee. This Committee shall be appointed by the Field Committee subject to the approval of the Institute Committee.

ARTICLE IV

Section 1. The officers of the class shall consist of a President, Vice-President, Secretary, Treasurer, two Members at Large, 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. 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 com-

mittees of the class. He shall countersign all

requisitions issued by the class.

Section 2. The Secretary 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.

Section 3. The Vice-President shall assume the duties of President in case of the latter's disability,

absence, or resignation.

Section 4. The Treasurer shall be responsible for the disbursement of all moneys of the class. He shall deposit all moneys of the class with the Treasurer of the Institute Committee and shall sign all requisitions for the expenditures of such moneys. He shall prepare a budget for all 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 5. The Executive Committee shall have the power to appoint such committees as it deems

necessary.

Section 6. The Executive Committee shall have the power to fill vacancies occurring within itself, subject to the ratification of the Institute Committee.

#### ARTICLE VI

Section 1. Class meetings shall be called by the President, Executive Committee, or by the written request to the President signed by thirty members of the Class.

Section 2. All notices of such meetings shall be

posted on the undergraduate bulletin boards.

#### ARTICLE VII

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

Section 2. The section representatives of the Freshman Class shall be elected by each section the second week of the first term. There shall be three (3) men elected from each section under the auspices of the Field Day Committee.

ARTICLE VIII

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

ARTICLE IX

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

ARTICLE X

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

ARTICLE XI

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

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."

### Student Curriculum Committee

ARTICLE I

The name of the Committee shall be the Student Curriculum Committee.

ARTICLE II

This Committee shall consist of a Chairman who already is a member of the Institute Committee, and at least four associates who shall be chosen by the Executive Committee. No two members of this Committee shall be taking the same Course.

ARTICLE III

This Committee shall work with a special Committee of the Faculty appointed annually by the President for the consideration of constructive criticism on methods of instruction in individual subjects or courses as may be presented from time to time, and for the general promotion of cooperative relations between students and instructing staff.



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#### SEPTEMBER, 1930

Sun. 14

Mon. 15

Tues. 16

Wed. 17

Entrance Examinations at Technology begin

Thurs. 18

Fri. 19

Sat. 20

SI	EPTEMBER, 1930
Sun. 21	
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Tues. 23	
Wed. 24	
Thurs. 25	
Fri. 26 Leave for F	reshman Camp at 2.30 p.m.
Sat. 27	Freshman Camp

#### SEPTEMBER, 1930

Sun. 28

Freshman Camp

Mon. 29

Registration Day. T. C. A. Blotters ready

Tues. 30

Classes begin
OCTOBER, 1930

Wed. 1

Thurs. 2

Fri. 3

Sat. 4

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Thurs. 9	
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Sat. 11	

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Sat. 1	NOVEMBER, 1930		

108

#### NOVEMBER, 1930

Sun. 2

Mon. 3

T. C. A. Financial Drive opens

Tues. 4

Wed. 5

Thurs. 6

T. C. A. Financial Drive ends Field Day

Sat. 8

NOVEMBER, 1930	
Sun. 9	
Mon. 10	
Tues. 11	
Wed. 12 Sign-ups for Senior Rings start	
Thurs. 13	
Fri. 14	
Sat. 15	

### NOVEMBER, 1930

Sun. 16

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Tues. 18

Wed. 19

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Sat. 6

DECEMBER, 1930
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DECEMBER, 1930	
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Mon. 9

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Technique Sign-ups

Wed. 11

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Thurs. 12

Fri. 13

Sat. 14

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# FEBRUARY, 1931 Sun. 22 Mon. 23 Tues. 24 Wed. 25 Thurs. 26 Fri. 27 Pops Concert Sat. 28

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Sat. 28 Technique Redemption of Sign-ups ends

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Sat. 20

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9.45 A.M. Young People's Division of the Church School

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7.30 P.M. Worship service with sermon

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12.00 M. Bible school and Student

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7.30 P.M. Evening Worship and Sermon

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#### Nineteen Thirty

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Upper and Lower Church

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4.00 p.m. Musical Service and Sermon 6.30 p.m. Young People's Fellowship. Supper followed by Forum.

FRIDAY

8.00 p.m. Emmanuel Social and Musical Club

CALENDAR,	1930-31
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your classmates
at the
1930 Freshman Camp
September 26-29

#### INSTITUTE CALENDAR

#### 

Entrance Examinations at Technology Begin
Sept. 17
College Year Begins (Registration Day)
Sept. 29
Columbus Day (Holiday)Oct. 12
Armistice Day (Holiday)Nov. 11
Thanksgiving Day (Holiday)Nov. 26
Christmas Vacation Dec. 24-Jan. 4
1931
Last Exercise, First TermJan. 24
Midyear Examination PeriodJan. 26-Feb. 7
Second Term Begins (Registration Day) Feb. 9
Washington's Birthday (Holiday)Feb. 22
Spring RecessApril 18-22
Memorial Day (Holiday)
Commencement DayJune 9
Examinations, College Entrance Examination BoardJune 15-20
Summer Session 1931 Begins June 8

#### CLASS SCHEDULE CARD

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9-10							Subj. No. Room
10-11							Subj. No. Room
11-12							Subj. No. Room
12-1							Subj. No. Room
1-2							Subj. No. Room
2-3					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Subj. No. Room
3-4							Subj. No. Room
4-5							Subj. No. Room

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1-2							Subj. No Room
2-3							Subj. No. Room
3-4	:						Subj. No. Room
4-5							Subj. No.

#### The Handbook

#### ADDRESSES

-	ID DIC	LUULI	,	
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Street No.				
City				
Name				
Street No.				
City				
Name				
Street No.				
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Street No.				
City				

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#### The Handbook

#### PERSONAL

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Telephone Number		
Home Address		
Telephone Number		
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Mass. Institute of Tech.	Univ.	6900
Rogers Bldg.—Architectural Dept.	в.в.	8910
Infirmary (Nights, Sundays, Holidays)	Univ.	6914
T.C.A.	Univ.	7416
"Coop" No		
Locker No		
Auto License No		

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