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# **HANDBOOK**

OF THE

# Massachusetts Institute of Technology

Twenty-third Edition
(Fifth Independent T. C. A. Edition)

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- E. W. Davis, '21, General Manager.
- E. W. Olcott, '21, Editor-in-Chief.
- C. W. Manville, '22, Assistant Editor.
- H. P. Baldwin, '21, Assistant Editor.
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- G. P. Schumacker, '22, Assistant Manager.
- W. C. Morse, '22, Assistant Manager.

Presented by the
TECHNOLOGY CHRISTIAN
ASSOCIATION



President Maclaurin

### AN HISTORICAL SKETCH

The history of the Institute is intimately bound up with the lives of two great men, William Barton Rogers and Francis Amasa Walker. In 1860 Rogers prepared a memorial asking that the land between Boylston, Newkirk, Berkeley and Clarendon Streets in Back Bay be set apart for a polytechnic college. In the fall of that year the Massachusetts Institute of Technology was founded.

The Institute opened in 1865 with a class of 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 must have closed its doors. In spite of his falling 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, as so good a knight would surely have wished, in 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, when Walker died, like Rogers, at his post, there were 1200 students. Of far more consequence, though, than the mere growth in numbers, was Walker's influence upon the intellectual and moral tone of the school. His courage, energy and enthusiasm, and aggressive energy and enthusiasm, and aggressive en

# CALENDAR

| 二年后 水 俊 然 名 一 图 张 京            | COLUMN TOWNS OF THE PARTY.   | THE COLUMN THE PERSON NAMED IN |                   |                  |
|--------------------------------|--|--------------------------------|-------------------|------------------|
| College Year Begins            | PARTE !  | 1919<br>Oct. 6                 | 1920<br>Oct. 4    | 1921<br>Oct., 3  |
| Semi-Annual Examinations       | The second   | Dec. 17-23                     |                   | Dec. 16-22       |
| Christmas Vacation             |  | Dec. 24-                       | Dec. 23-          | Dec. 23-         |
|                                |  | Jan. 4                         | Jan. 2            | Jan. 2           |
|                                | 1919   | 1920                           | 1921              | 1922             |
| Second Term Begins             | 1010   | Jan. 5                         | Jan. 3            | Jan. 3           |
| Condition Examinations* and    |  |                                |                   | 100              |
| March Recess                   | Mar. 23-30   | Mar. 14-21                     | Mar. 13-20        | Mar. 12-19       |
| Third Term Begins              |  | Mar. 22                        | Mar. 21           | Mar. 20          |
| Last Exercise, Third Term      |  | June 1                         |                   | May 29           |
| Annual Examinations            | June 16  | June 2-15                      | June 1-14         | May 31-          |
|                                | PE SECOND  | ABERRA                         | 7                 | June 12          |
| Last Examination, Fourth Year  |  | June 4<br>June 11              | June 3<br>June 10 | June 2<br>June 9 |
| Commencement Day Examinations, |  | June 11                        | a une 10          | June 9           |
| College Entrance               | The state of the s | 0.155                          | SEP WEEK          | 音等性量             |
|                                | June 16-21   | June 21-26                     | June 20-25        | June 19-24       |
| Summer Camp Begins             |  | Aug. 3                         | Aug. 2            | Aug. 1           |
| Entrance Examinations at Tech- |  | 200                            | ES NO             | 2 - 2            |
| nology Begin                   |  | Sept. 25                       | Sept. 24          | Sept. 23         |

Exercises are omitted on legal holidays. \*Condition examinations of the first term are held during first part of this week.

dorsement of the Institute's plan of education, were the main elements in its successful development. or The Institute wares and relia are

# ABOUT THE NEW TECHNOLOGY

March 19, 1913-Architect, Mr. Wm. W. Bosworth, was chosen.

December, 1913—Contractors, Stone & Webster, authorized to begin.

April, 1914—First run of concrete.

Cost of educational buildings now under construction, approximately five million; as planued, seven million.

Total cost of complete plant as planned,

ten million.

Construction of reinforced concrete, faced with Bedford Limestone, except on interior

courts which are faced with brick. Practically all the foundation on piles from 15 to 40 ft., 25,000 piles being used.

Single floor area, 31/2 acres. Great Court, 360 feet square.

Minor courts, 165 feet square.

Buildings about the major court, four stories.

Wings about the minor courts, three stories.

Height of library dome, 150 feet.

Area for present educational buildings, 12 acres.

Area for future educational buildings, 14 acres.

Area for student portion, Walker Memorial, dormitories, etc., 8 acres.

Area of athletic field, 7 acres.

Total grounds, 50 acres. Entered, fall of 1916.

Dedication exercises of New M. I. T., June 12, 13, 14, 1916.

Cornerstone of Walker Memorial laid

June 12, 1916.

# FRESHMEN ADVICE

- 1. Technology colors are cardinal red and silver grey.
- 2. The Institute songs and yells are given in this book. Learn them all. Always rise and remove your hat when the Stein Song is played or sung.
- 3. Join the professional society that pertains to the course you are taking. You will derive a benefit from this that is impossible to get from the classroom.
- 4. Payment of the Student Tax enables you to obtain expert medical advice, free of charge, from the Institute physician. His office is in room 8-101.
- 5. The Walker Memorial is a building for your use, and it not only offers social advantages, but also eating facilities, at a reasonable price. Patronize your school's cafeteria and grill room.

The offices of the Student Activities are also in the Walker Memorial Building.

6. Field Day is the big day of the year at Technology, for athletics. On this day the Freshmen and Sophomore classes meet in a crew race, football game, relay race, and tug-o'-war. At night the entire school goes to one of the Boston theatres to help re-establish peace. In the score, the relay and crew race count 4, the football game 3, and the tug-o'-war 2.

Members of the winning teams are awarded numerals, and the winning class has its numerals engraved on the Field Day Cup.

7. The Co-operative Society is a real student society, which has been in existance for 35 years, and pays around 10% in dividends each year. A dollar pays your membership fee, and enables you to secure

dividends on all your purchases made at the store, which is in the "Tech" block.

The store aims to supply all student needs in the way of books, instruments, haberdashery, sporting goods, etc., and there is also an up-to-date barber shop run in connection with the other departments

A slack business piles up overhead charges. Every lessening of these charges in the store, will work to the advantage of the members. Consequently, it is your duty to yourself, and to your fellow students, to aid in making this Technology store a success.

8. GO OUT FOR SOME ACTIVITY. DON'T BE DEAD.

# THE WORDS OF THE FOUR PRIN-CIPAL TECH SONGS

# 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.

taskingslytte oxiquen or vo

# 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.

# To do Talanis Chorus tande add and b'

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

When the wind comes up from Cuba,
And the birds are on the wing,
And our hearts are patting juba
To the banjo of the spring,
Then life slips its tether
When good fellows get together,
With a stein on the table
In the fellowship of spring.

# TOOChorus tor not day

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

# TAKE ME BACK TO TECH

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—
Oh! give me some 'Ology, 'Ology,
tra-la-la-la-

Any old kind of 'Ology, Tra-la-la-la-la-la-la-la-la.

### Chorus:

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 trigonometric powers
Of the constant pi that made me sigh
In those happy days of ours.

M-a-S-s-A-c-H-u-S-e-T-t-s
I-n-S-t-I-t-U-t-E o-F t-E
C-h-N-o-L-o-G, and Y comes after G.
Massachusetts Institute of Technolo-gee.

'Rah for TECHNOLOGY! of the control of the control

Nor we know the ynelo' loobable blo yak

Take me back on a special train all had To the glorious institute—
I yearn for the insufration of the a city

# THE CARDINALIAND THE GRAY The team it old, wilder are dear, out of

We'll show The sun with glowing crimson and of I Has ting'd the sky's dull gray; The glory of the sunsetands bon took of Uplifts our flag today; While here beneath our colors With hearts that never yield, Our boys are fighting onward. Fighting onward 'cross the field.

# Chorus: Yeb add ala

Fight on boys, we are cheering for you,

For we want you to win today;

Do your best, we are all behind you,

And you're wearing the Red and Gray.

Though the odds may be great against you, Full of sturdy courage be;
And we'll raise a song of victory For dear old M. I. T. han hou invest HA

Before old Harvard's crimson,
Before the rows of Brown,
Before the green of Dartmouth
Our colors will not down;
Though Amherst's white and purple Bid the Red and Gray to yield, Our cheer, still strong and clear, boys, Will ring across the field.

# Chorus Ita solov 180

On the days that are before us a first We will gather as of yore, door and And raise in swelling chorus, The grand old cheer once more. And when the battle's over Then at the close of day. Once again we'll raise our colors, Victory crowns the Red and Gray.

T. Rah! Rah! Rah! Technology!

# THE CARDINAL AND THE GRAY

The team is out, all sing and shout, We'll show them how to win. The men are strong, the battle long, and And now they're digging in. So shout and cheer and let them hear of T That Tech is with them now. Cheer Tech-Cheer Tech-Cheer for the

victory; to seem test streed ditw Three cheers for Tech-Our lay will surely win the day; aniod?

All shout and sing for the Cardinal and the Gray.
With every "T" let your voice and spirit be,

Fight with all your might and give to

Tech the victory.
Rah—Rah—Rah—Three cheers for Tech—Our lay will surely win the day;

All shout and sing for the Cardinal and

the Gray.
With every "T" let your voice and spirit

Fight with all your might, and give to Tech the victory.

When Tech is out, we all will shout, And loudly we will cheer. Our colors high will ever fly, Our voices all will hear. For Tech is best and all the rest Will soon be left behind.

Cheer Tech-Cheer Tech-Cheer for the The grand old cheer once more.

# THE TECH CHEER

Maroloo TaoRahin Rahi aRahi sonO M) LaTo Rah! Rah! Rah! M. I. T. Rah! Rah! Rah! Technology!

# UNDERGRADUATE ACTIVITIES

If you come to Tech with the preconceived notion that all you are expected to do is to study, get it out of your head as soon as possible. You have got to study and study hard. But remember that the grind rarely makes the good engineer. Go out for activities, and thereby serve Tech and enrich your own college life. As soon as you enter Tech in the fall start to get a line on the various activities. Choose some one or possibly two, for which you feel yourself especially fitted either through liking or natural ability, and stick to them. Avoid scattering your efforts over too many, else you are likely to lose out altogether.

Below will be found short articles on most of the important activities.

Technique is the year-book of the Institute, published by a board of Juniors. Its object is to preserve, in compact and artistic form, a record of Technology life and activities for the year in which it appears. For several years past it has included the Senior Portfolio, containing a night of good. picture of each Senior and statistics concerning him.

The Board of Publication consists of an Editor-in-Chief, Business Manager, Treasurer, and department editors for Athletics, Portfolio, Societies, Faculty, Grinds, Sta-tistics, Photographs and Art. According to a recent ruling, the Business Manager and Associates, and the Treasurer are elected as a result of a competition run by the members of the previous board. The Art Editor is also chosen by competition. The other editors are chosen during the Sophomore year by an Electorical Committee of twenty-five men elected by the class for this purpose. To get a position on the Technique Board is a distinct honor.

The book is introduced to the student body at the Technique Rush, the first event of Junior Week. Twenty copies autographed by the President of the Institute, are fought for by those who have the necessary pluck and nerve to enter the Rush. The first four and twentieth books are free.

The standard of Technique has always been high, and it stands today in the front rank of College year-books.

# THE TECH

The Tech is the students' newspaper of the Institute. Formerly it was issued tri-weekly during the college year, but since the entrance of the United States into the war, it has appeared twice a week continuously. It is edited and published entirely by undergraduates. The paper includes within its scope the reporting of undergraduate activities at the Institute, the doings of Technology Alumni in the United States and abroad, and articles dealing with affairs not directly connected with the Institute but bearing particular interest to the readers of the paper.

Positions on the staff of The Tech are usually filled by men from the three lower classes, elected by competition, to which all undergraduates are eligible.

Attempts made during past years to obtain and present more accurate information upon the subjects written for publication by The Tech's news staff have given the accounts an increasing reliability.

Subscription \$1.50 for 53 issues; 3c. a copy.

### The member WOHS HOTTLE Is between

The Tech Show, which is annually produced by the undergraduates during Junior Week, is a musical comedy written, acted, staged and orchestrated entirely by the students. It is one of the largest activities at Technology, about a bundred and fifty men taking part in its production. Several performances are given in Boston, and trips are made to various New England cities, where the Show enjoys the reputation of being one of the foremost college dramatic productions. Profits are usually expended for the benefit of Athletics.

The Tech Show is one of the few large college activities entirely managed by undergraduates. Competitions for positions in the Management are held during the fall term and all students are allowed to compete. The actual production of the play is commenced at the beginning of the second term, when a call for candidates for the cast, chorus, ballet and orchestra is issued. Competitions for lyries and music are held at various times during the fall. The scenery and costumes, also designed by undergraduates, are chosen by competition, and as a result the most modern ideas in staging are presented.

# COMBINED MUSICAL CLUBS

The Institute is represented by musical clubs organized under one management and known as the Combined Musical Clubs. Of these the Glee Club is the oldest, having been founded in 1884. In 1886 a combined Mandolin, Banjo and Guitar Club was organized which was split up into the Mandolin Club and the Banjo Club the following year.

The membership of the clubs is between twenty and thirty men apiece, the Glee Club being the largest. Each club has a leader and an assistant leader who drill the men. The requirements for admission are not strict and a man possessed of a reasonable amount of instrumental skill or a good voice should not hesitate to try out. Try-outs are held early in the fall and the personnel is the result of open competition.

There are generally about a dozen local concerts held during the season, most important of which are the Winter Concert in December and the Spring Concert, given during Junior Week, both of which are held at the Hotel Somerset and are followed by dancing. This season the management is planning a trip during the March Vacation. The program is not arranged yet but the plan is to give six concerts during the week in different cities, going as far west as Chicago.

The management of the Combined Clubs consists of a General Manager, a Publicity Manager and a Treasurer. In addition there are two Freshman Assistants chosen as the result of a competition starting in the fall term and ending sometime after Christmas. As in the other activities the holding of one of the minor positions leads to a better one the following year and to the position of General Manager in the Junior Year, JACKSUM GARAGEO

THE TRACK TEAM

Track is Technology's athletic mainstay. It has for a long time been the major sport at the Institute, and is even more so now that here at the new site a modern, well-kept track and field are at the instant disposal of the students. In the course of a season Technology competes in cross-country races, and in the regular indoor and outdoor intercollegiate meets, as well as in dual meets, with Princeton, Harvard, Maine, Bowdoin and other colleges. Technology has always put a strong team into the field and has produced not a few intercollegiate champions. But few teams are composed wholly of champions, and the Track Team offers almost unlimited opportunities for everyone.

# TENNIS

Within the past two years, tennis at the Institute has been developed to a considerable extent. In the Fall, a team tournament open to all Technology students is held. The winner is awarded a TTr. Positions on the team are obtained through elimination matches, the four highest men on the list comprising the team. Subsequent changes in the ranking may be made by challenges. Besides the Varsity, there is also a Freshman team. Last year both teams had attractive schedules, the Varsity making a trip to Vale and Trinity College, as well as playing a good many matches at home.

# WRESTLING

Due to the various factors such as lack of veteran material, inability to obtain intercollegiate competition, and accidents to the best men, the wrestling team last year suffered a bad season. However, the substitution of wrestling by the freshmen in place of gymnasium work was even more popular than ever, and interclass competition was the prevailing spirit of the season. Members of the 'Varsity team, and Mr. Gracey, are always ready to coach the new men, so that Freshmen need not hold back from taking up wrestling for lack of previous training.

### SWIMMING

The record established by the Technology 'Yarsity swimming team is one that places it among the best in the country. Although our representatives have met the fastest college teams in the East, they have been defeated only twice in the last four years. The season consists of from eight to twelve dual meets with such colleges as Brown, Wesleyan, Amherst, U. of P., Princeton, U. S. Naval Academy, and Yale. As the team is a member of the Intercollegiate Swimming Association, a representation is sent annually to the Individual Intercollegiate Championships.

The coach issues a call for candidates shortly after Field Day, and each man is given individual attention. Most of the Institute's best swimmers have been developed from men who have had no previous experience whatsoever. Practice is held at the Boston Y. M. C. A. tank, and may be substituted by Freshmen in place of calisthenics.

The freshman team has a schedule of ten meets with the leading academy and college freshman teams. The freshman relay team is sent to the Intercollegiate Championship match. Late in the season the class championships are held.

# THE VOO DOO

The Voo Doo is a combination of The Technology Monthly and The Woop Garoo. It strives to bring before the students an outline of the activities of the month, and also pictures of interest about the Institute. In addition to this it contains a department of original humor, both stories and cartoons, All positions on the board and staff are open to competition.

Freshmen have a wide field in which to exercise their talents on this magazine as men are needed for the business, art and editorial departments. Any freshman is eligible for membership on the staff, and this will lead to a position of greater responsibility if he proves himself capable. Subscription, \$1.00 a year; 15 cents a copy.

# CREW

With the removal of the Institute to the banks of the Charles, in 1916, Crew naturally came to the foreground. It is now a fully recognized sport, being a member of the M. I. T. A. A. and interesting probably as many men as any other sport, with the possible exception of Track. Last spring the third annual Field Day Race was held. Last spring, however, the Advisory Council on Athletics made the Crew Race a part of the regular Field Day Program, specifying it would count four points, therefore the crew race goes a good way toward winning Field Day. The winning crew and its manager are now also awarded numerals. The Freshman crew race high schools and prep schools such as Noble, Greenough, and Middlesex. Crew should appeal strongly to the Freshmen as it requires very little extra time and it may be substituted for the com-pulsory gym work. Three positions on the managing staff of the Crew are open to Freshmen. Awards are made after a short competition among the candidates during the Fall and early Spring months.

# RIFLE CLUB

The Rifle Club stands unique among Institute organizations as the only one backed and supported by the United States Gov-

ernment. In return for this assistance the War Department expects the club to turn out from inexperienced men as many fair riflemen as possible, and herein lies the dominant objective of the association.

In following out this policy, however, the Team is not neglected, and in 1915 this club succeeded in winning the Intercollegiate championship of the United States, at the same time breaking all previous records. The Team is open to all members of the club, and is granted the Institute insignia.

The Rifle Club makes an especially attractive proposition for Freshmen, as the dues are low and the time expended small, necessitating no neglect of that all important subject of study.

# CLASS OFFICERS

# 1920

Executive Committee..Percy Bugbee, K. D. Patterson.

# 1921 and 1921

Executive Committee...H. P. Junod, R. W. Barker.

### 1922

Executive Committee...N. O. Robinson, E. W. Hammond.

# TECHNOLOGY CHRISTIAN ASSOCIATION

### Officers

# Purpose

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 its highest ideals. Its purpose is "To unite all men of the Institute who desire the moral and religious welfare of the student body, for the purpose of promoting among them Christian principles of thought and action."

# Membership

All students and members of the Institute who are in sympathy with the objects of the Association and wish to co-operate in promoting them are eligible to membership. No membership fee is charged but subscriptions to the budget of the Association are solicited.

# Organization

There is an Advisory Board of alumni who maintain a General Secretary and his Assistant and sustain advisory relations with the undergraduate organization. Direction of all Association affairs is in the hands of the Cabinet composed of officers, heads of departments and chairmen of all committees. In the interim of Cabinet meetings, the business of the Association is carried on by the Executive Committee.

which is made up of the officers and the heads of departments.

# History

Previous to 1895 there was an organization of a few men known as the Technology Christian Union. In 1895 this was disbanded, and a M. I. T. Y. M. C. A. was organized as a student branch of the Boston Y. M. C. A. In the spring of 1908 the Association was reorganized as the Technology Christian Association, a self-supporting, individual, Technology organization, with an Advisory Board which has financial responsibility, and employs a General Secretary. Its affiliation is recognized with the Intercollegiate Young Men's Christian Association of North America.

# DEPARTMENTS

# Student Service

Samuel Vadner, '21......Chairman

In charge of the Freshman Advisory System of providing upper classmen to aid Freshmen during the opening days of the year, the maintenance of an information bureau during registration, the investiga-tion of rooming and boarding places, the employment bureau, and the promoting of friendly work for foreign students.

# Administration

# C. B. Stanwood, '20......Chairman

Publishes the "Tech Bible," carries on the Membership and Finance campaigns, keeps up the office files and other clerical work, conducts the book exchange, and carries on all advertising and other business of the Association.

# Religious Education

Harold Kepner......Chairman

Conducts the Discussion Groups for reshmen and upper classmen, provides speakers for T. C. A. Talks, and for fraternities, secures attractive, recent books for recreational reading, aids students in establishing cougenial church relations, and in general promotes thinking on intellectual and religious questions.

# COMMITTEE CHAIRMEN

Room Investigation.....Warren Howland
Activity File......J. Howard Flather
Publicity.......Harrison Folinsbee
Book Exchange......Edwin R. Clark

# "Tech Bible"

Editor-in-Chief.......E. W. Olcott, '21
Assistant Editors.... C. W. Wanville, '22
General Manager....E. W. Davis, '21
Assistant Managers...D. N. Shaw, '22; R. H.
Winde, '22; G. P. Schumacker, '22; W.
C. Morse, '22.

# ADVISORY BOARD

# **Executive Committee**

P. R. Ziegler, '00, Chairman.
H. S. Ford, Treasurer—Bursar, M. I. T.
Alfred E. Burton—Dean, M. I. T.
Prof. A. E. Norton.
F. R. Kneeland.
Prof. George B. Haven, '94.
Walter B. Snow. '85.

# Co-operation

William C. Ewing, '97-Superintendent, Wells Memorial Institute.

Arthur S. Johnson-President, Boston Y.

M. C. A.

Frank L. Locke, '86-President, Boston Y. M. C. U.

Prof. Charles F. Park. '92-Director Lowell Institute School for Industrial Foremen. general redge dien de

Walter B. Russell. '97-Director Franklin Union

Arthur L. Williston, '89-Principal, Wentworth Institute Finance Finance

A. Farwell Bemis, '93-Member of Corporation, M. I. T.

Leonard C. Wason, '90.

Henry Morse, '72.

Francis R. Hart. '89.

Charles Eaton, '85.

George Wigglesworth-Member of Corporation, M. I. T.

### CHURCHES

These churches in Boston\*\* are those attended most largely by Tech men. Most of these have an active group of Technology students who will welcome you. The churches in Cambridge\* are those most largely attended by Harvard men. All of them have special classes for students. Wear your M. I. T. button when you go to church as it will help other Technology men to identify you.

For a more complete list of service see the Church Directory of the Saturday Evening edition of the Boston Transcript.

Appleton Chapel, Harvard University. Service at 11.00 a.m. Selected preachers, some of the best in the country.

# BAPTIST

The First Baptist Church in Boston\*\*— Founded 1665, cor. Clarendon St. and Commonwealth Ave. Rev. Austen Kennedy De-Blois, D. D.; Ph. D., minister. Sunday morning service, 10,30.

Old Cambridge Baptist Church\*—Between Mass. Ave. and Harvard St., near the Harvard Union. Rev. Woodman Bradbury, pastor. Students' Bible Class, 12 m, Christian Endeavor, 7.00 p. m.

# CONGREGATIONAL

Central Church\*\*—Corner Berkeley and Newbury Streets. Rev. Williard L. Sperry, minister. Morning service, 10.30. Vesper service, 4.30.

Mount Vernon Church\*\*—Just across the river, cor. Beacon St. and Mass. Ave. Robert J. Watson, assistant minister. Sunday services, 10.45 a. m. and 7.45 p. m. Young

People's Social Tea, 6 p. m. Young People's Discussion Hour, 6.45 p. m.

First Church in Cambridge\*—Cor. Garden and Mason Sts. Rev. Raymond Calkins, D.D., minister. Morning service and sermon at 10.30 o'clock. Young People's Meeting at 7.45 p. m.

Old South Church\*\*—Copley Square, Rev. Geo. A. Gordon, D.D., minister. Rev. Willis H. Butler, associate. Sunday services, 10.30 a. m. and 7.30 p. m. Young Men's Bible Class, 12 m.

First Church in Cambridge (Cong.)\*—Opposite the Washington Elim, Cambridge Commons, Cor. Garden and Mason Sts. Rev. Raymond Calkins, minister. Morning service, 10.30 a.m. Evening service, 4.30 Nov. to May. Young People's Alliance for students, 7.15 p.m. Address and discussion followed by social hour and refreshments.

Union Congregational Church\*\*—Columbus Ave. and West Newton Sts. Rev. Ernest Graham Guthrie, minister. Mr. F. L. Fay, assistant. Sunday services, 10.30 a. m. and 7.30 p. m. Special classes for students,, 12.10. Young People's meetings, 6.30 p. m. Fireside socials, program and refreshments, 5 p. m.

Prospect St. Congregational—Near Central Sq., Cambridge. Rev. Wm. Macnair, pastor. Morning service, 10.30. Evening service, 7.30. Christian Endeavor, Young People's, 6.30 p. m.

# EPISCOPAL

Trinity Church in the City of Boston\*\*— Copley Square. Clergy—Rev. Alexander Mann, D.D., rector; residence, 233 Clarendon St. Rev. Reuben Kidner, assistant minister. Rev. Gabriel Farrel, assistant minister. Sunday services, Holy Communion, 8 a. m. Also a second Communion at 10.30 a. m. on the first Sunday of the month. Morning service and sermon, 10.30 a. m. Evening prayer and sermon, 4 p. m.

# UNITARIAN

The Second Church in Boston\*\*—Audubon Circle on Beacon St. Samuel Raymond Maxwell, minister. Sunday service, 11 a.m.

# METHODIST

People's Temple\*\*—Columbus Ave., cor. Berkeley St. Rev. Joseph P. Kennedy, D.D., pastor. Morning service, 10.30 a.m.; Evening service, 7.45 p.m. Everyone welcome.

Epworth Methodist Church\*—Mass. Ave., opposite Cambridge Commons. Rev. Dr. Elmer A. Leslie pastor.

Bromfield-Tremont\*\*-Concord and Tremont Sts. Rev. Kelley Jenness.

Harvard St. M. E.\*—Rev. E. A. Elliott, D.D., 177 Hancock St., Cambridge,

Grace Methodist\*—Magazine Street, cor. Perry. Rev. H. I. Bailey, 19 Cottage St.' Cambridge.

# LUTHERAN

St. Mark's English\*\*—29 Winthrop St., Roxbury. Rev. E. L. Miller, pastor. Morning worship with sermon at 10.30. Sunday School at 11.45. No evening service.

# PRESBYTERIAN

First Presbyterian Church\*\*—Columbus Ave. at Berkeley St. Rev. Isaac Ward, D.D., pastor, will preach at 10.30 a. m. and 7.30 p. m. Cordial welcome. Sunday School at 12 noon. Classes for all.

# ROMAN CATHOLIC

The Cathedral\*\*-Washington and Union Park Streets.

St. Cecelia\*\*—Belvidere and St. Cecelia Sts., near Boylston St. and Mass. Ave. Rev. John J. McGarry, administrator. Sunday Masses, 6, 7, 8, 9, 10, 11 and 11.30 a. m.

St. Paul's Church\*—Mt. Auburn St., cor. Holyoke St. Rev. John Ryan, paster.

# CHRISTIAN SCIENCE

The First Church of Christ\*\*—The Mother Church, Falmouth, Norway and St. Paul Sts., Boston, Mass. Sunday services, 10.45 a.m., and 7.30 p.m. Sunday School, 10.45 a.m. Testimonial meeting every Wednesday evening, 7.30.

# **JEWISH**

Temple Adath Israel\*—Commonwealth Ave. and Blanford St. Harry Levi, rabbi. Services Saturday, 10.30 a.m. and Sunday 11 a.m.

# FRATERNITIES AT TECHNOLOGY

| Sigma Chi                                  |
|--|
| Theta Xi                                   |
| Delta Psi428 Charles River Road            |
| Chi Phi44 The Fenway                       |
| Delta Kappa Epsilon. 104 Charles River Rd. |
| Phi Beta Epsilon 400 Charles River Rd.     |
| Delta . Upsilon 526 Beacon St.             |
| Sigma Alpha Epsilon 484 Beacon St.         |
| Delta Tau Delta 4 Ames St.                 |
| Phi Gamma Delta 491 Commonwealth Ave.      |
| Phi Sigma Kappa517 Beacon St.              |
| Theta Chi                                  |

Phi Kappa Sigma .... 203 Bay State Road Alpha Tau Omega.....37 Bay State Road Theta Delta Chi.......334 Harvard St. Lambda Phi......493 Commonwealth Ave. Lambda Chi Alpha....200 Bay State Road Kappa Sigma ..... 512 Commonwealth Ave. Zeta Beta Tau Sigma Alpha Mu 

# SOCIETIES

KaS Pi Delta Epsilon Theta Tau Masque

Vectors Osiris The Beaver Stylus

Alpha Chi Sigma

# CLUBS

Walker Club Chinese Club Latin American Club Cosmopolitan Club Catholic Club Menorah Society Rifle Club

Cleofan Wireless Club (Women's Club)

Air Service Club

# PROFESSIONAL SOCIETIES

Civil Engineering, Pres. E. B. Murdough, '20

Mechanical Engineering.

Architectural.....Pres. D. C. Sanford, 20 '19 Naval Architecture... Pres. P. F. Maher, '20 Electrical Engineering . Pres. H. B. Deal. '20 Corporation XI. . Pres. M. S. Burroughs, '20 Mining Engineering .. Pres. A. A. Brown, '20 Chemical.......... Pres. A. C. Atwater,

# CONSTITUTION

OF THE

# MASSACHUSETTS INSTITUTE OF TECH-NOLOGY UNDERGRADUATE ASSOCIATION

# Preamble.

Whereas, 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 MASSACHU-SETTS INSTITUTE OF TECHNOLOGY, it is fitting that some central organization, chosen and controlled by the student body, should, as representing that body, have and exercise general powers as 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 AS-SOCIATION.

# ARTICLE II.

# Purpose.

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

# ARTICLE III.

# Membership.

All registered 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 INSTITUTE COMMITTEE.

Section 2. All acts and decisions of the Institute Committee shall be considered to be facts and the 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 Interstate Committee shall be presented to the Association for ratification or rejection, as is 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:

Architectural Society

Chemical Society
Civil Engineering Society
Cosmopolitan Club
Electrical Engineering Society
M. I. T. A. A.
Mechanical Engineering Society
Mining Engineering Society
Musical Clubs
Tech Show
Technique
The Tech
The Voo Doo
Technology Christian Association
Naval Architecture Society
Walker Memorial Committee
Finance Committee.
Dormitory Committee.

Section 5. Any other activity 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 the activity 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 activities 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 two members elected from the Committee-at-large, shall constitute an Executive Committee.

Section 2. The President of the Senior Class shall be the President of the Institute Committee. All other officers of the Committee shall be chosen annually by the Committee by written ballot.

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

# ARTICLE VI.

### Amendments.

Amendments to this Constitution may be recommended by the Institute Committee or by a petition of one hundred (100) members of the association. Any amendments so recommended shall be submitted by the Institute Committee to the entire body for consideration and adoption. Full notice of such proposed amendments shall

be submitted to the entire student body for consideration by publication for 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.

Article V, Section 1, was amended during the year from the original section reading:

"The officers of the Institute Committee shall consist of a President, Vice-President and Secretary-Treasurer," etc.

#### BY-LAWS

## ARTICLE I.

Name.

The name of this organization shall be the Institute Committee, as provided for in Article IV, Section 1, of the Constitution of the Massachusetts Institute of Technology Undergraduate Association.

## ARTICLE II.

Purpose.

The function of this Committee shall be such as is stated in Article IV, Section 1, of the Constitution.

# ARTICLE III. Membership.

Section 1. The membership of this Committee shall be as provided for in Article IV of the Constitution.

Section 2. The members of this Committee shall be chosen by the several classes and activities, and shall assume office upon election. Each activity shall send to the Institute Committee the name of its representative upon his election. In

case the official representative cannot be present at a meeting the Institute Committee may send a substitute.

Section 3. The members of this Committee shall hold office for one year.

Section 4. All vacancies occurring during the school year shall be filled by the activity in question at a special election. With the representatives to the Committee from the classes the Governing Boards of the classes are given the right to fill such vacancies.

# ARTICLE IV.

The officers and executive committee of this Committee, as provided for by the Constitution, Article V, Sections 1 and 2, shall, with the exception of the President, be elected by written ballot at the first meeting of the Institute Committee after class elections in May.

Section 2. The Standing Committees of the Institute Committee shall be the:

Walker Memorial Committee, Point System Committee, Bulletin Board Committee, Budget Committee.

Section 3. The members of the Point System Committee and Bulletin Board Committee shall be appointed by the Executive Committee within two weeks after the first meeting of the Institute Committee, such appointments to be subject to ratification by the Institute Committee.

The chairman of the Point System Committee and Bulletin Board Committee shall be chosen from the membership of the Institute Committee.

The chairman of the Walker Memorial

Committee shall be appointed from the Junior Class by the Executive Committee, subject to ratification by the Institute Committee, at its first meeting in May of each year, and shall hold office for one year.

Three other members shall be appointed at the same time as the chairman. At least two of these shall be Sophomores or Juniors during their term of office. The fifth member shall be the Walker Memorial Proctor, appointed by the Bursar.

The Budget Committee shall consist of the Treasurer of the Institute Committee as chairman, two undergraduate members elected by the Institute Committee and three alumni members elected by the Alumni Council and subject to the ratification of the Institute Committee,

The chairman of the Budget Committee shall serve on the Finance Committee and the chairman of the Finance Committee shall serve on the Budget Committee,

Section 4. Special Committees. There shall be a Finance Committee, which shall consist of a chairman, who shall be a Senior elected by the Institute Committee; the Treasurers of all the various classes and activities; and three Alumni members, the latter to be appointed by the Alumni Council, subject to ratification by the Institute Committee. Any activity shall be fined \$0.50 every time its treasurer is absent from a regular meeting of the Finance Committee.

Section 5. There shall be a Dormitories Committee, composed of seventeen duly elected residents of the dormitory, whose chairman shall be a dormitory resident and ex-officio a member of the Institute Committee.

Section 6. There shall be an Activities Committee, consisting of three men appointed by the Executive Committee, subject to the ratification of the Institute Committee. The chairman of this committee shall be ex-officio a member of the Institute Committee.

Section 7. A "Tech Night" Committee shall be appointed by the Institute Committee to arrange for the celebration of "Tech Night."

Section 8. Such other committees as may be found necessary shall be appointed from time to time.

#### ARTICLE V.

#### Duties of Officers and Committees.

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

Section 2. The Vice-President shall assume the duties of the President in the absence of the latter.

Section 3. The Secretary shall keep all records of the Institute Committee and shall send notices to all members of the committee prior to each meeting.

Section 4. The Treasurer shall receive and have custody of all moneys of the Committee and shall disburse all money only upon vote of the Institute Committee. He shall be bonded for such an amount as the Executive Committee deems advisable at the expense of the Institute Committee.

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 facts and recommendations pertaining thereto.

The Executive Committee shall hold a regular meeting before every regular meeting of the Institute Committee.

Section 6. It shall be the duty of the Point System Committee to enforce the Point System, which shall be as hereinafter provided for.

It shall be their further duty to keep the records of the Point System, and to report to the Institute Committee at every regular meeting the name of any man having overpoints.

Section 7. The Budget Committee shall investigate all proposed expenditures of the Institute Committee in excess of five dollars, and report through the Executive Committee on the advisability of the same. It shall, at the third regular meeting of the Institute Committee of each Institute year, present a budget of the Institute Committee finances for that year.

Section 8. The Walker Memorial Committee shall have charge of the student administration of the Walker Memorial and shall have the power of appointing any sub-committees it deems necessary, subject to the ratification of the Institute Committee. The Committee shall have published in each issue of "The Tech" a schedule of undergraduate events. It shall maintain in the Walker Memorial a calendar of all undergraduate activities, on a board provided for that purpose.

The Committee shall cause to be posted a list of the names and addresses of the officers of all undergraduate activities, on a board provided for that purpose. The Committee shall, by consent of the Dean, be authorized to assign all Institute rooms for the use of undergraduate activities, and shall, so far as possible, prevent any activity from holding meetings that would conflict with each other.

It shall be the duty of the Committee to demand of each class or activity a list of coming events; the list to be constantly

kept up to date.

The Committee shall have the power of fining any activity which holds a meeting unauthorized by the Committee, the fine to be one dollar (\$1.00) payable to the Treasurer of the Institute Committee. Until such fine is paid, the Committee shall refuse to approve any application made by that society or club or class for reservation of time or room.

Section 9. The Bulletin Board Committee shall have charge and be responsible for the bulletin boards of the undergraduate body. All bulletin boards under the control of the Bulletin Boards Committee are hereby denied outside commercial interests.

They shall enforce any rules made by the Institute Committee, regarding the bulletin boards.

They shall report at every regular meeting of the Institute Committee.

It shall be the duty of the Committee to remove from the bulletin board such posters as do not conform to the standard size of 11 in. x 17 in.

It shall be the duty of the Bulletin Board Committee to receive posters at the option of the activities and to affix thereto the stamp of the Institute Committee stating such posters to be the property of the Institute Committee. Each poster shall also be numbered and the number registered with a descriptive title.

Once a year or oftener the Bulletin Board Committee shall dispose of such posters by auction sale.

Section 10. The Finance Committee shall hold regular monthly meetings at such dates as they shall themselves choose. Special meetings may be called by the chairman of the Finance Committee.

The Committee shall have the power to insist upon a clear businesslike financial report from every activity before the seventh day of each month, for the month preceding; such report to cover the following items at least:

Cash on hand at first of last month. Expenditures and Liabilities. Receipts and Assets. Balance on hand at end of month.

The Finance Committee shall have the power to audit the accounts of any activity when it thinks such action is advisable.

If the financial condition of any activity is such that in the opinion of the Finance Committee the activity will not be able to pay any debt incurred, the Committee shall have the power to insist upon some guarantee from the activity that the amount to cover such indebtedness will be raised.

In case any activity does not comply with the above measures the Committee shall refer the action of the activity to the Institute Committee.

Section 11. The Dormitories Committee shall be responsible for the student administration of the dormitories.

Section 12. The duties of the Activities Committee shall be:

- 1. To make an extensive reporteach year showing the number of men in activities, the percentage enrollment in activities, the effect of activities on scholastic standing, the activities record of prominent alumni, the advantages of carrying some activity, and the large amount of activities work to be done.
  - 2. To prepare detailed lists and charts showing the organization of various activities, the offices of each and how they are secured, and the duties of such offices.
    - 3. To give all possible publicity to its reports, lists and charts; and
    - 4. To keep in touch with various activities, keep a record of positions open and, by due publicity, endeavor to secure keen competition for these positions.

Section 13. The duties of any special committee appointed by the Institute Committee shall be such as are stated at the time of said appointment.

## ARTICLE VI.

The Point System.

Section 1. There shall be a Point System with ratings of all offices and membership in the several classes and activities, as follows: (Here a list of the ratings, which may be found in the accompanying report of the Point System Committee.)

Section 2. No man shall be allowed to carry more than ten points except that a man may be in athletics or be a member of the musical clubs and hold one other office even though the total exceeds ten points.

Section 3. The exception in Section 2 shall not apply to managers or assistant managers of athletic teams.

Section 4. There shall be no commutation of points except by unanimous vote of the Institute Committee.

Section 5. Any student placed on proba-tion by the Faculty is, during his probation, ineligible for any activity, and is required to withdraw from any activity with which he is associated.

# ARTICLE VII. Meetings.

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

Section 2. Special meetings may be called at any time by the President or the Executive Committee. After three days, the President shall call a meeting of the Institute Committee, upon written request of ten members.

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

- Roll Call.
- Reading of minutes of previous meeting. 3. Special business.

  - 4. Reports of Standing Committee.
  - 5. Reports of Special Committees.
    - 6. Old business. To be be the doug dollar
  - 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 VIII.

## Quorum, signa son Hade

Section 1. A quorum necessary to transact any and all business of the Institute Committee shall consist of twelve men.

Section 2. No meeting shall begin or continue unless at least a quorum is present.

## ARTICLE IX.

#### Dues.

Section 1. The dues for representation on the Institute Committee shall be two dollars a year for representation and shall be payable during the first five weeks of the school year.

Section 2. Any representative whose dues are not paid by the second regular meeting each year of the Institute Committee shall automatically lose all vote and voice in the proceedings of the Committee,—such loss to continue only until his dues are paid.

Section 3. The names of all activities delinquent in the matter of dues, shall be published daily in "The Tech" until such dues are paid.

#### ARTICLE X.

#### Lateness and Absence at Meetings.

Section 1. No fines shall be levied for lateness or absence of this Committee.

Section 2. The names of all members absent or late shall be published in the next issue of "The Tech" after the meeting at which such lateness or absence occurs.

Section 3. If the full official representation of any activity is not present at two consecutive regular meetings of the Institute Committee, that activity shall forfeit its right to representation on the Committee, which representation shall not be allowed until the Institute Committee has been in receipt of a formal petition from the activity in question and has passed on the same in conjunction with the requirements for admission as stated in the Constitution.

## ARTICLE XI.

## Requirements for Institute Committee

Section 1. The Committee recommends that, for the purpose of consideration, all undergraduate organizations applying for representation shall be classified either as an activity or a society. Activities shall be those organizations whose membership is determined by competition open to the entire undergraduate body, or by electoral committee election. All other organizations shall be classified as societies.

Section 2. It shall be required that an activity or society applying for representation on the Institute Committee present proof that it has been in existence for three consecutive terms.

Section 3. Activities applying for representation may be admitted to the Institute Committee provided they fulfill the prerequisite time requirement, and meet one or more of the following standards:

- 1. Financial Standard. The activity must show that a minimum of one hundred men entered in competition for positions on the activity during one Institute term.
- 3. Tradition Standard. The activity must have traditions which, in the estimate of the Institute Committee, render it worthy of representation. The vote of two-thirds of the members of the Institute Committee shall be necessary to admit an organization under this standard.

Section 4. Societies applying for representation on the Institute Committee may be admitted provided they fulfill the pre-requisite time requirement, and one of the following requirements:

- 1. Membership Requirement. The society must present proof that its organization includes fifty active members. The society must present proof that its membership is open either to all undergraduate students or all members of an Institute course.
- 2. Service Requirement. The society must present proof to the Institute Committee that it has been and is of service to the Massachusetts Institute of Technology in one of the following lines:
- a. Service to undergraduates.
  b. Dissemination of technical knowl-

The Institute Committee must decide by the vote of two-thirds of its members whether the service is of sufficient value to render the organization worthy of representation.

## ARTICLE XII.

#### Changes in By-Laws.

Section 1. These By-Laws shall not be changed in any way so as to conflict with the Constitution of the Massachusetts Institute of Technology Undergraduate Association.

Section 2. Proper changes in these By-Laws may be made by two-thirds vote of the Institute Committee at any meeting of that body.

#### POINT SYSTEM

The Point System is an institution which aims to prevent a student from carrying too much outside work to the detriment of his studies, and enables more men to take part in student activities. Every office and activity is assigned a definite number of points, and no man may carry more than a total of ten points, except in the case of athletics, or the musical clubs, when he may carry any one other office, even though the two total more than ten points.

The system was put into operation by the Institute Committee in the fall of 1908 and is enforced by one of its standing committees.

| The ratings of the Point System are collows: |     |
|--|-----|
| The Classes                                  |     |
| President: brack swall suntake A             |     |
| Senior                                       |     |
| Junior                                       | 9   |
| Sophomore                                    | 7   |
| Freshman                                     | 6   |
| Vice-President                               |     |
| Secretary                                    | 3 5 |
| Treasurer                                    | 5   |
| Institute Committee                          | 1   |
| Executive Committee                          | 1   |
| Tech Show                                    |     |
| General Manager                              | 10  |
| Business Manager                             | 9   |
| Assistant Business Manager                   | 7   |
| Candidates and 2nd Ass't Bus. Mgr            | 5   |
| Advertising Manager                          | 9   |
| Assistant Advertising Manager                | 6   |
| Candidates and 2nd Ass't Adv. Mgr            | 4   |
| Stage Manager                                | 9 7 |
| Ass't Stage Mgr. (Second term)               |     |
| Candidates and 2nd Ass't Stage Mgr.          | 5   |
| Stage Director                               | 8   |

| Treasurer Principals Chorus                           | 9 6 5 |
|---|-------|
| Feehnique   |       |
| Editor-in-Chief                                       | 10    |
| Business Manager                                      | 9     |
| Board, except Ass't Business Mgrs.                    |       |
| and Art Editors                                       | 8     |
| Board, except Ass't Business Mgrs.<br>and Art Editors | 6     |
| Ass't Art Editors                                     | 6     |
| Ass't Art Editors                                     |       |
| Cananal Managan                                       | 10    |
| General Manager<br>Editor-in-Chief                    | 9     |
| Managing Editor                                       | 9     |
| Treasurer   | 9     |
| Assistant Treasurer                                   | 5     |
| Advertising Manager                                   | 8     |
| Circulation Manager                                   | 8     |
| News Board  | 1 7   |
| Assistants' News Board                                | G     |
| Business Board  | 6     |
| Membership and Candidates Editorial                   |       |
| Staff   | 5     |
| Staff   | 5     |
| State   |       |
| TCA   |       |
| President   | 7     |
| Vice-President  | 1     |
| Treasurer   | 4     |
| The Voo Doo   |       |
| Editor-in-Chief                                       | 9     |
| Managing Editor                                       | 8     |
| Editors   |       |
| Assistant Manager Editor                              | 5     |
| Business Manager                                      |       |
| Publicity Manager                                     | 7     |
| Advertising Manager                                   | 8 6   |
| Circulation Manager                                   |       |
| Treasurer   | 6     |
| Art Editor  | 5     |

| Staff Photographer                         | 5   |
|--|-----|
| Staff Photographer                         | 4   |
| Members Editorial Staff                    | 3   |
| I. I. T. A. A.                             |     |
| I. I. T. A. A. President                   | 3   |
| (If Captain of Track Team)                 | 10  |
| Vice-President                             | 1   |
| Secretary                                  | 1   |
| Members Advisory Council                   | 3   |
| Track Team:                                | 0   |
| Captain                                    | 6   |
| Manager                                    | 9   |
| Manager (if on Advisory Council)           |     |
| Asisstant Manager                          | 6   |
| Candidates and 2nd Ass't Mgr               | 15  |
| Members and Candidates                     | 5   |
| Cross Country Team: Members and Candidates | -   |
| Members and Candidates                     | 5   |
| Wrestling Team:                            | 6   |
| Assistant Manager (also Candidates         | -   |
| for)                                       | 5   |
| Members and Candidates                     | 5   |
| Hockey Team:                               |     |
| Manager                                    | 6   |
| Assistant Manager                          | 5   |
| Crew:                                      | 0   |
| Manager                                    | 15  |
| 1st Assistant Manager                      | 3   |
| 2nd Assistant Manager                      | 2   |
| Swimming Team: Pooliniated 19610           |     |
| Manager                                    | 5   |
| Assistant Manager                          | 2 5 |
|  | 9   |
| Gym. Team: mobile of a city                | 2   |
| Assistant Manager                          | ī   |
| Members and Candidates                     | 25  |

| Tennis Team:  |     |
|---|-----|
| Manager   | 2 2 |
| Members   |     |
| Class Teams:  | 题   |
| Managers  | 25  |
| Class Teams: Managers Members M. I. T. Orchestra                                    | 0   |
| M. I. T. Orchestra  | 8.  |
| Manager   |     |
| Conductor   | 5   |
| Members (second term)   | 4   |
|   |     |
| Musical Clubs   | 10  |
| General Manager Assistant General Manager   | 6   |
| Candidates for Ass't General Manager  | 5   |
| Leaders   | 6   |
| Members (first term)  | 5   |
| Members (second term)   | 4   |
| Institute Committee   |     |
| Treasurer   | 9   |
| Secretary   | 8   |
| Members   | 5 7 |
| Executive Committee   | -   |
| Chairman  | H 8 |
| Members Jones   | 5   |
| Members   |     |
| Chairman  | 7   |
| Secretary   | 1   |
| Dormitory . Committee:  | 255 |
| Chairman  | 5   |
| MembersOther Committees   | 1   |
| Other Committees  |     |
| Professional Societies  |     |
| President   | 3   |
| Professional Societies President (If represented on Institute Com.). Vice-President | 1   |
| Secretary   |     |
| Treasurer   | 2 2 |
| Standing Committees   | 1   |

# Club and Non-Professional Societies Officers' Club: President 6 Vice-President 1 Secretary-Treasurer 2 All Others: President 2 Secretary-Treasurer 1 Standing Committees 7 Junior Prom Committee. 7

A man, being a member of the Institute Committee by virtue of some other office which he holds, shall have only the points attached to the office, provided they exceed or equal five (5); otherwise he shall have the five points only attached to the Institute Committee membership.

All Other Committees.....

The captaincy of any team adds one (1) point to the membership rating for that team.

The Stage Director or Stage Manager of Tech Show may take part in the show (either east or chorus) without additional points.

#### I. C. A. A. A. RECORDS

| J. Wefers              | G  |
|------------------------|--|
|                        | Georgetown<br>Michigan   |
| J. Wefers<br>C. Craige | Georgetown<br>Michigan   |
| E. Meredith            | Pennsylvania<br>Pennsylvania   |
| P. Jones               | Cornell  |
| S. Murray              | Leland Stanford  |
| I. Wendell             | Wesleyan   |
| P. Bailey              | Columbia<br>Maine  |
| C. Kraenzlein          | Yale<br>Pennsylvania<br>Yale   |
| OI HE HE SOULING       | Craige F. Lippincott J. Meredith D. Meredith J. Jones Dresser Murray E. Kraenzlein Wendell Beattie P. Bailey M. Oler E. Kraenzlein |

#### N. E. I. A. A. RECORDS

| Record   |               |  |  |  |
|--|---------------|--|--|--|
| 220-yard dash       22 2-5 s       A. B. Kelly       Holy Cross         440-yard run       49 3-5 s       J. D. Lester       Williams         880-yard run       1 m. 55 3-5 s       N. S. Taber       Brown         1-mile run       4 m. 18 3-5 s       N. S. Taber       Brown         2-mile run       9 m. 35 3-5 s       R. W. Atwater       Tufts         120-yard hurdles       15 2-5 s       A. B. Shaw       Dartmouth         220-yard hurdles       24 2-5 s       W. A. Savage       Bowdoin         Shot put       47 ft. 10 1-2 in       L. A. Whitney       Dartmouth         Hammer throw       164 ft. 8 1-4 in       H. P. Bailey       Maine         Discus throw       135 ft. 5 9-10 in       L. A. Whitney       Dartmouth         High jump       6 ft. 7-16 in       P. W. Dalrymple       Technology         H. B. Enright       Dartmouth         Broad jump       23 ft. 10 1-2 in       H. T. Worthing'n       Dartmouth | Event         | Record   |  | College  |
| Broad jump 23 ft. 10 1-2 in H. T. Worthing'n Dartmouth   | 220-yard dash | 22 2-5 s.<br>49 3-5 s.<br>1 m. 55 3-5 s.<br>4 m. 18 3-5 s.<br>9 m. 35 3-5 s.<br>15 2-5 s.<br>24 2-5 s.<br>47 ft. 10 1-2 in.<br>164 ft. 8 1-4 in.<br>135 ft. 5 9-10 in. | A. B. Kelly A. B. Kelly J. D. Lester N. S. Taber N. S. Taber R. W. Atwater. A. B. Shaw W. A. Savage L. A. Whitney. H. P. Bailey L. A. Whitney. P. W. Dalrymple | Holy Cross Williams Brown Brown Tufts Dartmouth Bowdoin Dartmouth Maine Dartmouth Technology |
| Pole vault 12 ft. 6 1-4 in M. S. Wright Dartmouth  |               |  | H. T. Worthing'n   | Dartmouth  |

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

| Event                      | Record                     | Holder                            |              |
|----------------------------|----------------------------|-----------------------------------|--------------|
| 100-yard dash              | 10 1-5 s                   | R. S. Franklin.                   | 1903         |
| 220-yard dash              | 22 s                       | C. W. Loomis                      | 1915<br>1909 |
| 440-yard run               | 50 4-5 s                   |                                   | 1914<br>1916 |
| 880-yard run<br>1-mile run | 1 m. 58 s<br>4 m. 24 4-5 s |                                   | 1911<br>1915 |
| 2-mile run                 | 9 m. 35 4-5 s              | F. F. Cook<br>F. L. Ovington      | 1915<br>1904 |
| 220-yard hurdles           | 24 4-5 s                   | G. P. Burch                       | 1899         |
|                            | 138 ft. 6 in               | Dandrow                           | 1914<br>1919 |
| Discus throw               | 6 ft. 1 1-2 in             | O. V. Chamberl'n<br>C. D. Heywood | 1911<br>1893 |
| Broad jump<br>Pole vault   | 22 ft. 7 1-4               | C. S. Reed                        | 1916<br>1919 |

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TO: Members of M. I. T.

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Managing Director

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| 1091 | Mary A. Pillsbury 3.00       |        |
|      | Gainsboro Street             |        |
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| 73   | Miss M. Millar 2.50 to       | 5.00   |
| 73   | Mrs. M. A. Baker 3.00 to     | 4.00   |
| 78   | Mrs. Harvey 5.00             |        |
| 80   | Mrs. C. E. Atwood 8.00       |        |
| 83   | G. E. Bent 3.50              |        |
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| 96   | Miss A. G. Thomson 4.00 to   | 6.00   |
| 97   | Annie M. Salling 5.00 to     |        |
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|      | Marlboro Street                                   |         |
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| 400  | Mrs. W. M. Browne<br>Dr. Arthur W. Wyse\$6.00 to  |         |
| 421  | Dr. Arthur W. Wyse \$6.00 to                      | \$10.00 |
| 427  | Mrs. E. E. Everett 5.00 to                        | 7.00    |
|      | Newbury Street                                    |         |
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| 12   | Mrs. Florence E. Coffin. 4.00 to                  | 12.00   |
| 31   | Homer McDonough                                   | 12.00   |
| 85   | Homer McDonough<br>Mrs. J. C. McKenna             |         |
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| 121  | Mrs. A. S. Shoemaker.                             | o Time  |
| 137  | Mrs. H. H. Harrison 5.00 to                       | 11.00   |
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| 212  | Mrs. C. H. Gilbert 4.00 to                        | 8.00    |
| 217  | Mrs. Telfer 6.00 to                               | 11.00   |
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| 290  | Mrs. Walter H. Rice 3.50 to                       | 4.50    |
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| 308  | Mrs. Kate J. Jewell 8.50 to                       | 12.50   |
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| 82   | Mrs. H. W. Noble                                  |         |
| 86   | Mrs. Mary S. Dee\$3.00 to                         | \$5.00  |
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| 52   | Harriet M. Higgins\$3.00 to                       | \$6.00  |
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| 38           | Mrs. J. G. Ryan 2.50 to                         | \$4.00 |
|              | Broadway  |        |
| 320          | Mrs. A. C. Savage\$2.00 to                      | \$4.00 |
| 393          | Mrs. C. B. Hanson 2.50 to                       | 4.00   |
| 401          | Mrs. Margaret McEvay. 4.00                      |        |
| 473          | Charles McHugh 3.00<br>Mrs. L. M. Clark 3.50    |        |
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| 7            | Mrs. H. W. Huff\$5.00 to                        | \$6.00 |
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INSTRUMENTS ON BOTH

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MATERIAL OF

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| CALENDA                                      | R. 1919-1920   |
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| SEPTEMBER                                    | NOVEMBER   |
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#### ADDRESSES

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#### RECITATION SCHEDULE—FIRST PERIOD

|       | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday                                |       |
|-------|--------|---------|-----------|----------|--------|---|-------|
| 9-10  |        |         |           |          |        |   | 9-10  |
| 10-11 |        | 28-10   |           |          |        | [Bags                                   | 10-11 |
| 11-12 |        |         |           |          |        |   | 11-12 |
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CARROLL L. CHASE, General Secretary.

#### RECITATION SCHEDULE-SECOND PERIOD

|       | Monday | Tuesday | Wednesday  | Thursday | Friday | Saturday |       |
|-------|--------|---------|------------|----------|--------|----------|-------|
| 9-10  |        | -       |            |          |        |          | 9-10  |
| 10-11 |        |         |            |          |        |          | 10-11 |
| 11-12 |        |         |            |          |        |          | 11-12 |
| 12-1  |        |         |            |          |        |          | 12-1  |
| 1-2   |        | 4-1     |            |          |        |          | 1-2   |
| 2-3   |        |         |            |          |        |          | 2-3   |
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| 4-5   |        |         |            |          |        |          | 4-5   |

#### RECITATION SCHEDULE-THIRD PERIOD

|       | Monday  | Tuesday               | Wednesday   | Thursday         | Friday     | Saturday          |       |
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