A Record of
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For 48 Years

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Official
Undergraduate News Organ
of M. I. T.

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PLAN ALUMNI REUNION NEXT JUNE

"USE WALKER" NEW SLOGAN OF STUDENT BODY

GREAT POPULARITY EMPHASIZES NEED FOR REMODELLING

Active Campaign by Students Makes Walker Scene of Important Events

SENIORS OPEN PROGRAM

Tentative Plan Would Provide Big Lounge and Remove Dining Service

Answering with an emphatic affirmative the question suggested by the faculty and corporation, "Will Walker be used if it is changed?" Technology students have joined unanimously in a "Use Walker" campaign. The year's most important events are scheduled in Walker Memorial, and a greatly increased interest has been shown in the various plans for re-modelling the building.

According to the Walker Memorial Committee, which is in charge of the students' building, an undergraduate enthusiasm rivalling the interest shown in the inception of the building is reflected in the increase of events to be held in Walker throughout the winter and spring.

Climax of Recent Investigation

When it became evident some years ago that the activity offices in Walker were over-crowded, the Alumni Council appointed a standing committee on the revision of the building. At that time the committee, with Dr. Allan W. Rowe '01 as chairman, made an exhaustive study of the conditions, and presented a comprehensive report. Through their efforts all possible changes to relieve the congestion were made, and various recommendations were formulated.

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Rockwell Views Athletic Future With Confidence

Technology Sports Plan Shows Up Well With Results Of Conference

In view of the present fuss and furore about the future of college athletics and their alleged evils, Dr. John A. Rockwell '96, chairman of the Advisory Council on Athletics, states his ideas on the subject with particular reference to sports at Technology.

Dr. Rockwell says "The athletic policy of Technology is formulated with the object in mind of having every student participate in some sport, rather than that of developing teams of high degrees of proficiency in the various sports, and of placing emphasis on intramural rather than on intercollegiate sport. This policy was necessitated by the fact that more hours of recitation, lecture and laboratory work are required of the Technology student than of the average college student."

Compares Favorably

"This established policy compares very favorably with the various plans at present being proposed for the reform of college athletics; in fact, what was virtually the Technology plan was accepted at the recent national conference in New York, which I attended. However, even our policy does not go as far as the ideal one formulated by President Day of Union, of having only amateur coaches and charging no admission to contests; the Technology coaches, although having outside interests, are paid regular salaries. However, the entire athletic budget at Technology is not as large as the rowing budget alone at Harvard."

"In view of all of these facts, it seems to me that we can view our future athletic problems with a great deal more equanimity than can many colleges and universities".

Will Speak at Alumni Banquet on Saturday

PRES. SAMUEL W. STRATTON

Recently Elected Dean Of Students at M.I.T.

HAROLD E. LOBDELL, '17

Alumni Leader Who Has Charge of June Reunion

THOMAS C. DESMOND, '09

Alumni Invited To Visit M. I. T. By Dr. Stratton

Special Open House to Be Held For Graduates Who Come To June Reunion

Many of those who contemplate attending the Five-Year Alumni Reunion in June next, have expressed a keen desire to have an opportunity to see the Institute as it is today—its buildings and grounds, its facilities for instruction and research, its campus life and student activities; especially do they desire to meet both faculty and students in the atmosphere of their daily work.

The Institute opens its doors frequently in Open House to parents, teachers, school-boys and the public generally of this vicinity in order that they may better know its work, also as an inspiration to the oncoming generation of young men contemplating a college career in the fields of science or technology.

It is especially fitting this year that the event should take the form of an Open House and reception to our graduates and former students.

Open House for Alumni

There are many new phases of the Institute's work made possible by its modern facilities and necessitated by the extremely rapid growth in the fields of science and technology.

The special committees of faculty and students representative of all departments are cooperating with the Alumni Committee in an effort to present to our returning visitors a true picture of the Institute's work today.

The most eloquent and instructive story of the Institute is that of the part its graduates have taken in the phenomenal development of the country during the past half century, but there is another chapter in this history of rapidly growing magnitude which must not be overlooked, namely, the creative work of the members of the Instructing Staff which has

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PAY FOR PROM TABLE RESERVATIONS TODAY

Table reservations for the Junior Prom must be paid for today if the students holding unpaid reservations wish to retain them. The "zero hour" for paying for reservations will be at 2 o'clock this afternoon in the Main Lobby. This ruling also includes any unpaid reservations that were made in the first campaign.

Signups for the Prom may be obtained at the same desk for the remainder of this week. No signups will be sold after this time as the redemption drive starts Registration Day. Table reservations may be made also provided they are paid for when the reservation is made.

H. E. LOBDELL '17 APPOINTED DEAN

Has Been Acting Dean for Two Years—Since Sudden Death Of Dr. Talbot

The position of Dean, vacated in 1927 by the death of Dr. Henry P. Talbot, was filled on October 9, 1929, by the appointment of Harold E. Lobdell '17.

For the past eight years Dean Lobdell has been assistant dean of the Institute, and acting Dean since the death of Doctor Talbot. In his new position he acts as intermediary in student affairs between the student body and the faculty, and is also actively connected with the extra-curricular activities.

The new Dean took his preparatory course at the Johnstown, New York, High School. While an undergraduate, Mr. Lobdell was on the staff of the school newspaper, working from

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Faculty Decides On Marking Plan At Meeting Today

Will Change Present Lettering System To Include New Passing Grade

One of the most recent innovations introduced by the Faculty is the use of four passing grades in the future, instead of the customary three. Action was taken upon this measure at the last meeting of the Faculty to the extent of deciding that there shall be four grades, but as yet there has been no decision as to what lettering system will be used. It is expected, however, that the matter will be definitely settled at the Faculty meeting to be held this afternoon.

The four-grade system is not new at the Institute, having been used in the past and subsequently abolished. It is now felt that the present grade of P, designating all marks from 60 to 75, covers entirely too much ground. This is considered unfair to the student who makes a 70 or 75

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News Items Will Be On Pages Four and Eight

Since this issue is devoted to the Alumni, the first pages will consist of important happenings which have taken place in the past several months. Stories of recent events of interest to the students will be found on pages four and eight.

Scene of Junior Prom Changed To Walker Memorial

Student Activity Center Will House Chief Social Event For First Time

Junior Prom, the traditional summit of the whirl of Technology social activities, for the first time since the Institute moved across the river from Boylston Street, will be held in a student activity building, Walker Memorial. "Use Walker", the campaign that this year brought many new activities to Walker Memorial, succeeded in arousing the enthusiasm of the student body and the result is that the chief social function of the year will be held on the north side of the Charles.

Despite the fact that Walker Memorial was built for and should serve as the center of student life it has never really taken its proper place at Technology. This year however, many functions that were previously held in outside halls have been brought here and Walker Memorial now promises to assume its rightful place when it houses the Junior Prom.

Floor Objection Overcome

One of the chief objections in the past to the use of this building for social events was that the floor in the Main Hall was not suitable for dancing. This prejudice has been partly overcome and unfavorable comments concerning the floor have become few and far between. The Prom Committee, before selecting Walker Memorial as the site for the ball, had an interview with the management of the Boston Garden and succeeded in obtaining their permission to use the same preparation on the floor of Walker Memorial as is used in the Garden. This is a patented, time-proven preparation and should do much to convince skeptics that there is nothing wrong with the floor of Walker if it is treated in the proper manner.

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FRESHMAN RULES END AFTER EXAMINATIONS

Freshman Rules will reach a conclusion at the end of this term was the decision reached by the Institute Committee at the last meeting. It was thought that four months of observance of these rules by the members of the freshman class would be entirely sufficient to serve the purpose of the rules. Up until the past year, this event took place with a rally of the freshman class during Junior Week. Since Junior Week was abolished, this took place just before the Spring Recess last year.

Decision was reached by the Institute Committee at a meeting on

(Continued on Page 8)

INSTITUTE REUNION EXPECTED TO BRING LARGE ATTENDANCE

Thomas C. Desmond '09 Heads Executive Committee As Chairman

TO BE SIXTH IN SERIES

June 6 Will Be Registration Day with Reception In Afternoon

With the largest gathering of Technology alumni ever assembled as the goal, preliminary plans are now underway for the regular quinquennial reunion on June sixth and seventh. It is expected that this meeting will duplicate the feat of its predecessors in drawing Technology men from all parts of the world.

The preliminary plans call for registration on June 6, with a Corporation and president's reception in the afternoon. The "Grand Finale" of the two-day gathering, the reunion dinner will be held on Saturday night, June 7, with many features which should serve to make this an outstanding event.

The chairman of the reunion executive committee is Thomas C. Desmond '09, a nationally known engineer, and Dr. Samuel C. Prescott, head of the department of biology and public health is vice-chairman. Various other committees composed of prominent Technology men have been selected by the Alumni council to take charge of different phases of the work.

Mr. Desmond, who is prominent among Technology alumni and widely known in public life as well as in the field of engineering, was graduated from the Institute in 1909 and by 1914 had become president of T. C. Desmond and Company, New York Engi-

(Continued on Page 4)

Alumni Will Hold Annual Dinner In Walker Saturday

Association Meeting Will Be Fifty-third of Series Started in 1876

Paul W. Litchfield '96, president of the Alumni Association will preside at the fifty-third Annual Dinner of this group at Walker Memorial, Saturday Evening. Dr. Stratton is expected to review the progress of the Institute during the past year and Thomas C. Desmond of New York, chairman of the executive committee for the All-Technology Five Year Reunion of this June, will speak on the latest developments in this event.

Several health education films made by the Institute in cöoperation with the Eastman Kodak Company will be shown in connection with Dr. Clair E. Turner's address on the progress of Technology in this work. Robert Lincoln O'Brien, author and editor, will also speak on "How 1930 Looks to Us".

The first meeting of the Alumni was held in 1876, in the physics lecture room of the Technology building on Boylston Street. The dinner was held at Youngs Hotel.

Robert R. Richards '68 Professor Emeritus of Mining Engineering, has attended nearly every annual dinner since the foundation of the association and is expected to be on hand to represent his class at the forthcoming dinner. He was the first president of the alumni association and has seen it grow from his original organization of 122 members to a group of 13,000 graduates.

For the first time the privilege of attending the Annual Alumni Dinner was extended to the members of the Senior Class. These men will be eligible for membership in the Alumni Association in the near future.

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DEDICATION

FEELING that Technology graduates too soon grow away from the interests of undergraduate life, Volume XLIX of THE TECH presents herewith its "Alumni Issue". It is dedicated to the Alumni whose work has given prestige to the Institute and increased knowledge to science. We students are directly or indirectly affected by the success of the graduates. Your contributions to the engineering world are given publicity and we find ourselves much better informed of your activity than you are of ours.

In this issue we have attempted to give a synopsis of important events of the last two years, and to present some ideas of the problems involved. Although the names may in most cases be unfamiliar, we feel sure that you will read these accounts with interest. No doubt our experiences will recall similar happenings "during the old administration".

We sincerely hope that this issue may foster a closer contact between the present and past student bodies at Technology. Mutual understanding and communal purpose is essential between the two groups. Former experience has proved invaluable in the approach to present problems, and we should appreciate any suggestions you may make.

WALKER—THE HARDEST PROBLEM

WE at Technology feel that you graduates who were responsible for the original student clubhouse should be particularly interested in the present problem confronting undergraduates at the Institute. Ours is a greater problem, though along the same lines; it will be solved by and for the benefit of a larger student body; it is for the betterment of a Greater Technology.

Whenever students congregate this year, the talk inevitably turns to the Walker problem. An unprecedented interest has been shown in all the aspects of the situation. When it was realized that before anything definite could be accomplished, it would be necessary to prove that the undergraduates actually would use Walker, every effort was made to establish this fact.

While the announcement that the Junior Promenade would grace Walker for the first time evidenced a favorable student attitude, the Senior Dance on December 13th was the "test case". The verdict was indisputable—the dance was a success from every standpoint, and proved that the Main Hall was wholly adequate for social functions. The dignified and beautiful room rivalled any hotel ball room with no detracting commercialism, and the dining service showed its policy of approval by the excellence of the meal provided.

Since that time, the popularity of the building for informal dinners and meetings has been steadily rising. A new idea initiated last Saturday of a dance after a basketball game was enthusiastically accepted. While many factors, among them the objectionable presence of the dining service itself, detract from these affairs, the use of Walker by students is convincing evidence that the building warrants the additions under consideration.

The specific problems involved are many, and the incorporation of salient features of the original plan would seem to offer satisfactory solutions to many of these difficulties. While the architect's study published on page 15 of this issue is altogether a tentative idea, it is hoped that some such changes as indicated will be effected. In the sketch are embodied the features of the first plan, which a lack of funds made impossible of fruition. With the dining service housed in a separate wing, and the Main Hall used for its real purpose, the biggest objection to the present building would be obviated. If it should be considered wise and practical to build an auditorium in the opposite wing, much needed facilities for entertainments and conventions would be provided. Such a plan would bring a revenue, for there is at present no place in Boston for such gatherings as this hall would easily provide for.

Whether these plans or others are carried out, it is almost certain that something is going to be done about Walker. The present student body has demonstrated that it is ready to hold its affairs on the "campus", and would be more than willing to do so if the needed re-modelling were done. The enterprise enjoys the hearty approval of the faculty, corporation and alumni, individually and collectively.

Among the recent improvements in Walker, the Lounger just recently noticed the placement of two or three large urns in convenient corners. Perhaps the powers that be are contemplating the use of these as spittoons, and there is no doubt that whether or no, this is the purpose they will ultimately serve. With the addition of several new rugs and more decorative furniture, the Lounger predicts that Walker will soon take on the aspect of an exclusive antique shop.

Not that this would be inappropriate. With the large and ever-increasing number of spatted individuals and bat-wing collars among the student body, the serving of tea in the lounges every afternoon would no doubt be popularly accepted. Those timid individuals who have not already had the courage to speak to the T. C. A. secretaries might find in the practice the necessary stimulus.

The syle of the aforementioned secretaries has been cramped this year by the fact that the president of the Association has not been open to advances on their part. What a shock and a relief it was to them to find that Pat was not a woman-hater, but that he was merely being faithful to home and family. They have announced themselves in favor of opposing any promotion on the staff of the T. C. A without an exhaustive investigation concerning the extent of the candidate's affections and connections beyond the grim gray walls.

With the proposed enlargement of Walker, the Lounger recommends that the offices of these activities requiring secretaries for the conduct of their business be placed in a more accessible and busy spot. Maltreated is the secretary who remains in the service for a long period of time, and those in the loft are placed at a disadvantage.

At least they have the consolation at present that the visitors they do have deem the visit worth a climb of three flights. If they desire more popularity, they have the option of establishing a fund for the purchase of elevators to the third floor. To insure non-interceptance it should be an automatic elevator, or else should be run by someone over forty-five.

Former Governor Alfred E. Smith favors an amendment to the constitution making a defeated presidential candidate a senator-at-large. Such a senator, naturally, would become minority leader of the Senate.

Thirty-five new college presidents have been elected since Jan. 1, 1929, six elected in 1928 have been inaugurated, and the presidential affairs of 10 other institutions have been placed in the hands of staff members pendind filling of vacancies, according to Archie M. Palmer, writing in the November issue of the American Colleges Bulletin.

WITH THE AMERICAN COLLEGE EDITORS

Life in general is a pretty serious thing, but it has its funny sides and also its farcical sides. Among these farces is one, very familiar to us, though it emanates from the confines of our southern neighbours. That is, that at the advent of a new celebrity, (through fame or notoriety) usually among screen artists, interviewers proceed to extract from that favored personage his or her opinion on high finance, political economy, moral philosophy—in short, on any question upon which they are anything but fit to talk—and the newspaper, with due gravity, presents to a gaping public the latest inside information—obtained direct from the celebrity!

This in itself, however, is of little moment. Such opinions carry weight only with their admirers. It takes on a more serious aspect when "college professors"—profesors of Physics, of Chemistry, of Mathematics and so on—give similar interviews on topics of which they are equally ill-informed.

Amongst the common delusions is one that a college professor knows everything. This belief, although untrue, is so widespread that even some college professors believe it. On this assumption we have the spectacle of a chemistry professor who knows nothing of any faith, but believing in one of them airing his views on the philosophy of religion. We have a professor of divinity whose only science is that of so altering a sermon that it can be delivered on the following week without being found out, laying down dogmatically that science is inefficient and that evolution is a fable.

This, of course, does not mean that a professor of Physics has no right to investigate the subject of religion, but if he is going to offer public opinion upon it he should see to it that he has an adequate knowledge of the subject.

As We See The Movies

UPTOWN AND OLYMPIA

For those who like the sophisticated comedy, with Maurice Chevalier and his sly wink in the foreground, "The Love Parade" now playing at the Olympia and the Uptown is a rare treat. This versatile Frenchman, combining his showman's talents with he directing potentialities of Lubitsch, forms one of the high hat comedies of the year.

When the first American picture of Chevalier's came out, "Innocents of Paris", a great future was predicted for him in the American cinema by the critics. Something new in the realm of moviedom is always superlatively acceptable, and The star of the "Love Parade" belong to this category.

Jeanette MacDonald, who plays opposite Chevalier, was until recently a small-part musical comedy girl. The mere fact that an advertising man described her as "the girl with the red-gold hair and the sea-green eyes" so increased her popularity that she was soon given heavy parts in the more important musical comedies. She was featured with Mitzi in the "Magic Ring", and from this she turned to the movies.

The smile and the infectious personality of the star have won him fame on two continents, and although there is a touch of the questionable in the handling of the story, it cannot be denied that its subtlety makes it all the more irresistible. Several songs are used to good effect in the production, including "Nobody's Using It Now", and "Anything to Please the Queen", which no doubt will soon be capitalized by the gramophone people.

The combination of Lubitsch the German, Chevalier the Frenchman, and Jeanette MacDonald the American in a play that is intended for the American public certainly proves that the melting pot idea is not so bad after all.

Others who contribute to the success of the picture are Lupino Lane, Lillian Roth, Eugene Pallette, Edgar Norton, Lionel Belmore and Russell Powell. Those who go to the picture expecting a reproduction of the amazing dramatic powers of "The Patriot" are doomed to disappointment. But for those who merely seek an extraordinarily good satire and farce the picture will hold a decided appeal.

W. Don Harrison, Athletic Director at the University of Pittsburgh, issued a statement recently in which he declared that colleges place too great emphasis on intellectual pursuits rather than on football.

WALKER MEMORIAL -- A REALITY

By Dr. Harry W. Tyler

General Francis Walker, President of the Institute from 1881 to 1897, left on his sudden death a Faculty and Student Body bewildered if not stunned by the tragedy of the loss. The idea of an adequate memorial of his immense and literally self-sacrificing service inevitably occurred to many minds, but first took definite shape at a meeting of the Class Secretaries Association in the old Technology Club at 71 Newbury Street, when it was voted to apoint a committee to raise a fund for a Walker memorial gymnasium. The committee subsequently appointed included R. H. Richards '68, Thomas Hibbard '75, C. M. Baker '78, H. W. Tyler '84 (Chairman), Everett Morss '85, W. B. Thurber '89, J. L. Batchelder, Jr., '90, A. F. Bemis '93, and Benjamin Hurd '96. On Mr. Hurd's removal to New York he was succeeded by C. E. A. Winslow '98, who became Secretary of the Committee.

Less Than 2000 Graduates

The graduates at that time numberer less than 2000, and not many of them had had time to acquire fame or fortune. The committee conducted for three years a systematic and energetic canvass for pledges, payable during a period of five years. The response was gratifying in the number of contributions but not too encouraging in the total amount. On the accession of President Pritchett in 1900, the work of the Committee was substantially invigorated by his active approval and interest. As early as the first report of the Committee in December 1899, the character of the memorial had been modified to the extent of including provision for other social purposes in addition to the original gymnasium. Student unions at that time were much less developed than they have since become. A visit of the chairman to the new Houston Hall of the University of Pennsylvania led to an article on the subject in the Technology Review and played a part in the evolution of later plans. The undertaking was dramatically completed by the action of the Class of 1901 on its graduation day, bringing the total amount up to the desired mark of $100,000, though it is perhaps fair to add that the actual crossing of the line was facilitated by a telephone guarantee from two loyal Alumni, C. A. Stone '88, and E. S. Webster '88.

Before further steps could be taken in converting the fund into a visible memorial it was, of course, necessary to prepare satisfactory plans on the basis of a location allotted by the Corporation, which had increased its holdings in the area bounded by Clarendon Street and Trinity Place, including a part of the present Stuart Street. The location assigned corresponded approximately with the present University Club, and plans for utilizing it were prepared by Professor E. B. Homer '85, and circulated as a basis for some of the later contributions.

It was disappointing at the time, though ultimately fortunate, that the whole question of the Institute's future location became and remained entirely unsettled, so that even had funds been sufficient no memorial could safely have been erected. Advantage was taken of the opportunity, however, to experiment with a student union, including as one of its features an adaptation of the German student "Komers".

Temporary Idleness in 1915

During the succeeding years, until about 1915, the undertaking was thus practically paralyzed, but the natural accumulation of interest had brought the amount available to about $160,000 at the time the new Institute across the Charles was planned and erected. Still the situation seemed difficult. With the increased cost of building the sum available was entirely inadequate for a satisfactory memorial, which must of course be in keeping with the scale and architectural beauty of the new buildings. It was finally proposed by the Executive Committee of the Corporation, and accepted by the Alumni Committee, that a building be erected which should combine with the gymnasium and the student union the general dining service of the student body, at a total initial cost of about 400,000.

On this basis the cornerstone of the Walker Memorial was laid in June 1916, and the building was completed in time for the varied war purposes. Its subsequent history is a matter of common knowledge. It has sheltered manifold student activities; it has afforded incidentally a home for the Faculty Club, the Alumni Council, and occasionally the Alumni banquets. Of its serviceability as a gymnasium others can speak with better knowledge. I may point out, however, that a significant factor in the development of Walker Memorial has been the bequest of about $70,000 by the late Frank H. Cilley '89. Mr. Cilley was a graduate in civil engineering of unusual capacity in mathematics and theoretical work generally. He was keenly interested in physical development and his will provided that the income of the fund should be applied to certain related purposes. It has been administered by trustees, formerly including Professor A. A. Noyes '86, and Dean Alfred Burton. The fact that the original plan was for a gymnasium rather than a union, and that the Cilley bequest emphasized physical training makes it appropriate, not to say imperative, that the Memorial should permanently include a gymnasium as well as provision for the best development of undergraduate social life. It by no means follows that the gymnasium of the Walker Memorial should be the sole or main gymnasium of the Institute.

WITH THE AMERICAN COLLEGE EDITORS

"Keep out of a rut" is a bit of advice familiar to everyone above kindergarten age. Everyone has been taught to avoid letting his habits confine him to a routine which keeps him from "getting around," from going places, seeing people, making acquaintances, and gaining new experiences. The modern tendency is for people to "keep going" always, never settling into anything like a routine type of living.

People are amused at the rigid routine of daily activity that Immanuel Kant prescribed for himself and carried out for more than half a century. He arose at five o'clock every morning winter and summer and lived on schedule until bedtime. He never traveled more than forty miles from his native town during his life and for eighty years he walked a beaten round. He lived in a rut. And Immanuel Kant, who never left the second-rate Prussian town, Konigsberg, and who never varied his daily routine for half a century, was one of the best informed men of history and one of the two or three most influential thinkers of modern times.

Kant is by no means an oddity. Henry Thoreau writes, "I cannot regard it but as a kindness that those that have the steering of me have nailed me down to my native region and made me study and love this spot of earth more and more. What would signify in comparison a thin and diffused love and knowledge of the whole world instead, got by wandering?"

A rut may be a great simplification in that it keeps one from being worn and fretted by unrestricted liberties. And it may be made a track which will guide one to success. It is the rut that one can not see out of that is to be avoided, the rut in which we try to hide.—From the Purdue Exponent.

Aeronautical Building Dedication Begins Expansion of Department

Construction Made Possible by Daniel Guggenheim Foundation

The first step in a program of expansion in aeronautical education and research was made June 4, 1928 with the dedication of the Daniel Guggenheim Aeronautical Building at Massachusetts Institute of Technology, the pioneer in this field of education in the United States.

The need for additional space for class rooms and laboratories was urgent. The new building, with additional equipment, large laboratories and numerous class and drafting rooms, gives the Institute unexcelled facilities in this branch of engineering.

Harry M. Guggenheim, president of the Daniel Guggenheim Foundation for the Promotion of Aeronautics, which made a grant of $230,000 for construction of the new building, was one of the speakers at the dedication exercises at which Dr. Samuel W. Stratton, president of Technology, presided.

The Hon. Edward P. Warner, Secretary of the Navy for Aeronautics, and at the time head of the Department of Aeronautical Engineering at Technology on leave of absence, also spoke.

W. P. MacCracken Delivers Address

The Dedication address was made by the Hon. William P. MacCracken, Jr., Secretary of Commerce for Aeronautics. Another distinguished speaker was Captain Jerome C. Hunsaker, who was an instructor in aeronautical engineering when the course at Technology was in its infancy.

The James Means Memorial Medal for 1928 was awarded during the ceremonies to Samuel Niedelman of New York City, whose essay on "Intercommunication Between Aircraft and Between Aircraft and the Ground" was declared to be the best submitted. Niedelman was a member of last year's senior class.

The prize is donated by Dr. James H. Means of Boston in memory of his father the late James Means, who was greatly interested in aviation. As early as 1884 James Means published an article on "Manflight." His interest in the possibilities of flying was aroused by watching the flight of gulls during a sea voyage. In 1895 he published the first volume of the "Aeronautical Annual," believed to be the pioneer aviation journal in this country. Years before the first flying machine had been invented, Mr. Means declared that, while lighter-than-air ships might be contructed, the heavier-than-air craft would in the end be the most practicable.

Dr. Means was one of the dedication speakers and presented the medal, which bears a design symbolical of flight.

A special exhibition of aeronautical instruments was arranged for the dedication. Dr. Means, whose collection is among the most valuable in the world, sent the barometer, thermometer and other instruments used on the first flight across the English channel, a voyage which the French aeronaut, Blanchard, and Dr. John Jeffries, a physician of Boston, made in the interest of science in 1785. A bit of the fabric of the historic balloon was among the exhibits. From Orville Wright came several instruments and airfoil models used in the Wright brothers' earliest experiments in aviation.

The new building centralizes the work in aeronautical engineering by bringing class rooms, staff offices and laboratories under one roof. The architects, Coolidge and Carlson, designed a structure which not only offers every facility for the present, but anticipates the needs of the future in laboratories for solving the problems which will make man's mastery of the air more complete.

Two Wind Tunnels

Built of buff bricks on a steel frame and faced with Indiana limestone, the new building is in architectural harmony with others of the Technology group. It stands on the northwest corner of the Institute grounds facing Massachusetts Avenue, and close to the aeronautical engine laboratory, the only activity of the department not housed within the new building. The building is three stories in height, 150 feet long and sixty feet wide, with an unusually deep basement divided into two wind tunnel laboratories. The largest of the tunnels with a diameter of seven and a half feet, is now in use, while a new tunnel has been constructed in the other division of the basement. The new tunnel is approximately five feet in diameter and has a 75-horsepower motor generating a wind velocity of 100 miles per hour. This installation includes several new pieces of equipment for wind tunnel tests of airfoil models.

Because of the size of the largest wind tunnel the laboratory it occupies

(Continued on Page 12)

FACULTY DECIDES ON NEW MARKING SYSTEM

(Continued from page 1)

grade, since under the present marking plan, he receives the same mark as the student who barely slips by on a 62 or 63. It is further felt that greater clarity in the interpretation of the marking system will result if the passing range from 60 to 100 be divided into four equal grades, each covering a range of 10 points.

Faculty Decides Today

If the present markings of H, C, and P are retained, the new passing mark will probably be the L, used in the past to designate a low pass on intermediate reports. However, the Faculty has seriously considered changing to the uniform A, B, C, and D marking system. In case this is adopted, the present D, indicating a deficiency in a subject, will have to be changed to some other letter. These matters will be considered at the meeting this afternoon, and a decision will probably be arrived at, at that time.

No change will be made in the failing marks. The F will continue to designate grades between 40 and 60, and the FF all grades below 40.

FIVE YEAR REUNION OF ALUMNI PLANNED FOR JUNE 6 AND 7

Increasing Popularity Shown In Each Successive Alumni Meeting

FIRST ASSEMBLY IN 1904

(Continued from page 1)

neering firm. In 1916 he was national treasurer of the Roosevelt Non-Partisan League. He has been president of the New York Young Men's Republican Club, and was a delegate to the Republican National Convention in 1928. Mr. Desmond has been a member of various housing commissions, and is a director of the Murray Hill Trust Company. He is a former president of the Technology Club of New York and of the Technology Clubs associated.

Tyler Heads First Reunion

The forthcoming gathering will be the sixth of the traditional All-Technology Five-Year Reunions. The first was held in 1904, and was carried out at the suggestion of the Class of 1893, with the enthusiastic support of the Northwestern M. I. T. Association. Dr. Harry W. Tyler '84, and now head of the Department of Mathematics, was chairman of the committee of class secretaries which considered plans for that first reunion. The success of the gathering aroused much enthusiasm and had much to do with making the five year reunion one of the traditions of the Institute.

The reunion of 1909 was part of the program which marked the inauguration of Dr. Richard C. Maclaurin as President of Technology. It was held at a period of great promise for the Institute and resulted in the beginning of renewed alumni activity.

A third reunion was planned for 1914, but the gathering of the clouds of war on the European horizon caused plans to be abandoned. The next gathering came in 1916, when Technology's golden jubilee was celebrated with the opening of the new buildings in Cambridge. The event was marked by a great pageant and unusual spectacles symbolic of the march of progress, and the Institute's farewell to its old buildings on Boylston Street, Boston. Then it was that the men of many classes marched from their reunion dinner at the City Club to stand before the Rogers Building on Boylston Street, where in the light of many torches and while buglers sounded taps, the flag was slowly lowered from its staff atop the old building.

Telephone Hookup in 1920

In 1920 the Five-Year Reunion drew national attention because of a demonstration, during the reunion dinner, of the first nation-wide long distance telephone hookup. This telephonic network carried the voices of the dinner speakers to thirty-four cities, from the Atlantic seaboard to Los Angeles and Seattle, where groups of alumni unable to attend the reunion listened to the ceremonies.

The great Jamboree Dinner of the reunion of 1925, one of the most successful, was notable for large attendance and a dinner which with 2200 guests, set a record for such an event in Boston. One of the unique features of this great dinner was that there were no speeches.

HOLD SECOND ALDRED LECTURE ON FRIDAY

Dr. C. E. Winslow, Head of Yale Public Health Speaker

Dr. Charles-Edward A. Winslow '98, widely known biologist and bacteriologist, will be the second speaker of this year's series of Aldred Lectures, the second lecture being scheduled for Friday afternoon at 4 o'clock in Room 10-250.

Dr. Winslow has had a long and varied career, beginning with his graduation from the Institute with the degree of Bachelor of Science in 1898. He received his master's degree the following year, and has been the recipent of a large number of honorary degrees from various institutions. Dr. Winslow is a former member of the faculty at Technology, and has served on the staffs of several other universities. He has also served on several League of Nations Commissions, and is the author of many books relating to bacteriology, microscopy, and public health. At present, he is the head of the department of Public Health at Yale University.

QUADRANGLE DINNER WILL BE INITIATION

Initiation of the newly elected members of the Quadrangle Club will take place at Durgin Park's on Saturday January 18 at 5:30 o'clock. The initiation will be accompanied by a banquet, and the whole affair is exepected to last about three hours.

Junior Prom Will Be Held in Main Hall of Walker

Annual Social Function To Take Place on Night Of February 21

(Continued from page 1)

Junior Week, which is now in the second year of its demise, had its embryo beginnings with "Ye Junior Assemblie" held by the Class of '97 in old Pierce Hall in back of the Hotel Westminster. The following year this stately title was changed to Junior Prom, and Junior Week blossomed.

This innovation proved itself a success from the start. In addition to the Prom; THE TECH Tea, Technology Theatricals, and Musical Clubs Concerts completed the celebration, and Junior Week soon found itself famous.

Junior Week Successful

Tradition has it that the informal teas in THE TECH office were a rousing success from their inauguration and long remained the envy and admiration of those less fortunate until their absorption later by the afternoon "teas" of the Corporation and Interfraternity Council. The Dramashop is an outgrowth and continuation of those first Theatricals in 1897, and the Musical Clubs have also rapidly gained in strength since their Concert in the first Junior Week.

Tech Show became a part of this celebration in 1903 when the first performance was held in the Hollis Street Theater. The Show marked the beginning of a campaign for publicity and consisted chiefly of humorous happenings from student life.

Technique Rush, the last and by no means the least addition to Junior Week, had its inception on a certain warm spring day in 1907. This activity has also grown from a rather mediocre beginning to one of the best known of Technology events.

Poor Student Support

Despite the rapid growth of this week and the popularity of each one of the events, Junior Week as a whole became less and less popular with the student body It was increasingly difficult to run the affairs successfully. During the period of uncertainty and depression following the war it was only natural that this problem should appear. However, the increased enrollment of students and the accepted prosperity of the country a few years later did nothing to revive the old spirit and the attendance at the Junior week events decreased ten per cent each year.

This lack of support finally became such a problem that a committee was appointed to investigate the situation and decide whether or not Junior Week as a whole should be continued as an Institute activity. This committee studied a resume of all of the Junior Week activities and the decision was finally reached to distribute them throughout the year.

DESIGN OF SENIOR RING DECIDED ON

Will Be Presented to Institute Committee for Approval At Next Meeting

Efforts made toward the designation of a standard senior class ring have progressed to the point where only the final vote of the Institute committee is now necessary to set the stamp of approval on the design which has been selected.

A sub-committee was appointed by the Institute Committee to investigate and pass on the desirability of various designs for a permanent ring. It was generally agreed upon that the heavy type of ring at present in vogue among most of the colleges of the country was not suitable and that a smaller and lighter type should be substituted.

The final design as favored by the Ring Committee is for a twelve pennyweight ring, with the beaver forming the center of a rectangular crest and its accompanying insignia. The opinion of the members of the Institute Committee is not known at present, and the final decision will not be known until they meet tomorrow night.

The choice of a design for the crest of the ring became a subject of controversy in the middle of November when it became known that the Institute Committee was almost equally divided over the question of whether the design should feature the dome of the Institute or the beaver, the unofficial mascot. The beaver was finally chosen by a vote of nine to eleven, the principal reason being that the dome motif is used by very many colleges, while the beaver, as far as is known, is the mascot of only one other college, and is not used on any ring.

TECHNOLOGY FIVE HAS GAME TONIGHT WITH MIDDLEBURY

Starting Lineup Will Probably Be Same As In Recent Norwich Game

EXPECT CLOSE CONTEST

Middlebury College, which had one of the outstanding teams in New England last year, will meet the Engineer cagemen tonight at 8 o'clock, in the Hangar Gym. The visitors have three veterans of last year's quintet, and are expected to give the Cardinal and Grey a hard game. So far this season, Middlebury has played two games, winning one against the Williams five, losing the opening game of the season to McGill University. The Panthers have played both of their contests this season with small margins, the scores for their two games being 28 to 25, and 23 to 28.

Lineup Is Intact

MacDowell, who started at forward in the Norwich game, will probably be in the starting lineup tonight. Nee, whose position he will probably fill tonight will undoubtedly see action during the game, however. The rest of the lineup will be the same as has started every contest this season.

Tonight the cagemen topped off practice with basket shooting, and will be in excellent condition for tonight's contest. The Panthers, who also played a game last Saturday against Williams are also expected to be in good condition. This will be the last game for the Beavers before final examinations, after which they will meet Yale at New Haven.

Middlebury Lineup

Captain Humeston, center; Johnson, forward; Casey, guard; Bullukian, forward; and Valois, guard, will probably make up the team that will face the Beaver five in the game tonight. Humeston, Johnson, and Casey are the three veterans from the championship team of last year, and probably will be the main threats of Tonight's contest.

Johnson, who is the visitors' star offense man, scored 160 points for his team last season, averaging 10 points for each of the 16 games played by Middlebury last year. His sensational playing in the Green Mountain Championships did much toward keeping his team underfeated.

Expert Tells of Servicing Work

Business Branch of Automobile Maintenance Important As Mechanical

"Car servicing is now almost on a production basis", said Mr. Elmer Fuller, head of Cadillac's new servicing plant on Commonwealth Avenue, speaking before last Friday's meeting of the student branch of the Society of Automotive Engineers.

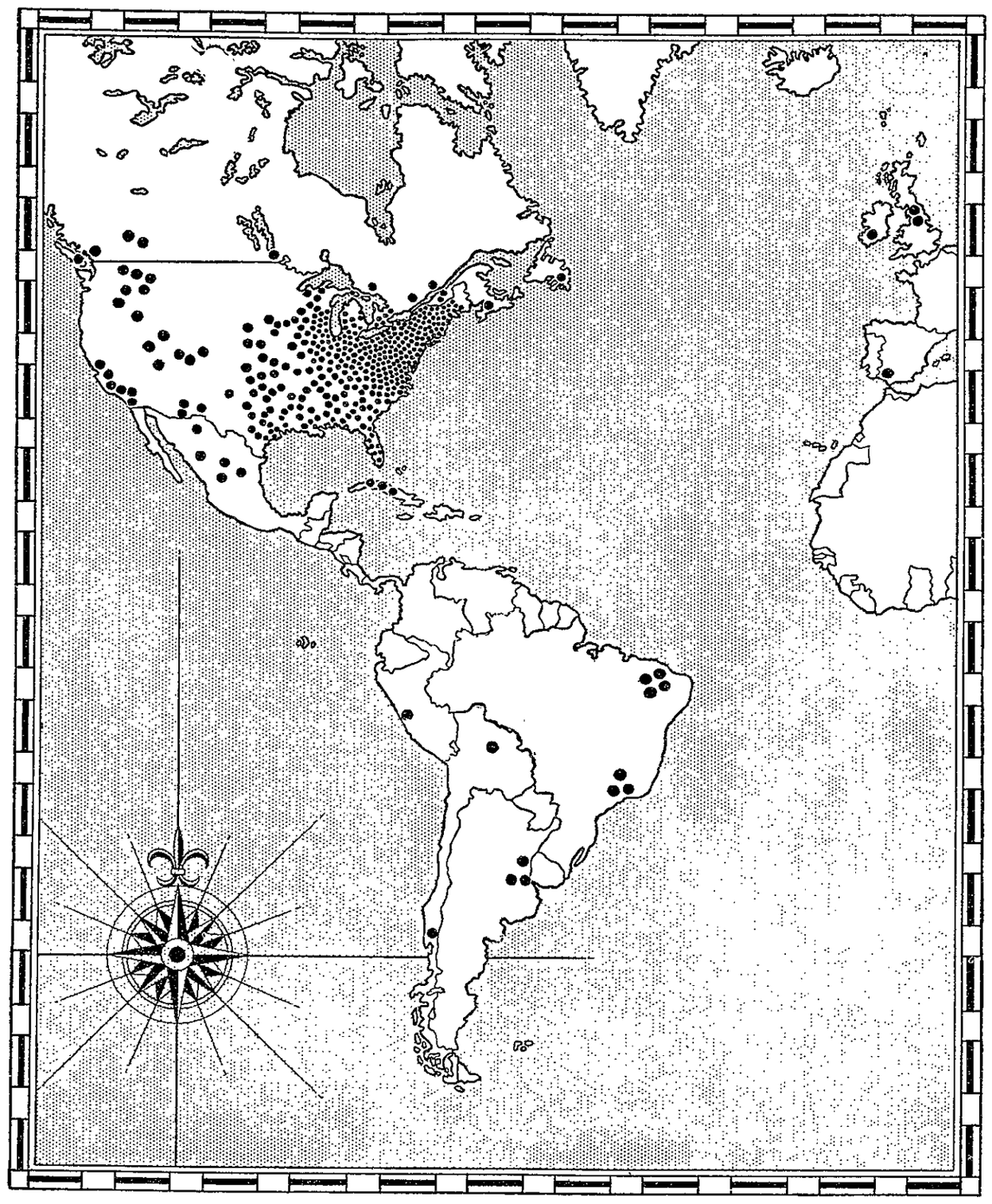
It is the business end of servicing which yields the majority of problems, Mr. Fuller explained, for through training schools and other means the mechanical branch of the work has been so developed within the last six years that it is now practically a standardized routine. An idea of the importance of the financial end of servicing may be gained from the fact that of every dollar spent in the retail field, 61 cents goes to service and maintenance. Mechanical knowledge is rated as the least important requirement for service executives.

Speaking of the S. A. E., Mr. Fuller stated that the men in the automotive industries pay $45 for S. A. E. membership, and feel that even without the regular section meetings their money is well invested, because membership includes subscription to the Journal of the Society. Students at Technology may obtain this Journal as well as getting such other benefits of membership as the privilege of attending meetings of the parent and student Societies and going on inspection trips, for the Student Membership fee of $4.

SCHOLARSHIP BLANKS DUE ON FEBRUARY 15

Applications for undergraduate scholarship awards for the academic year 1930-31 must be filed at the Dean's Office, Room 3-108 on or before February 15, 1930. Application blanks are now ready and may be obtained in Room 3-108.

It is the policy of the Institute to apply the available scholarship funds to the assistance of as many well-qualified students as possible by assigning, in general, amounts less than full tuition. Awards are made, except in a few special instances, only to students who have completed at least a year of satisfactory work at the Institute.



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A REVIEW OF THE YEAR'S SPORTS

TEAMS HAVE BRIGHT OUTLOOK FOR 1930

M. I. T. A. A.

During the past few years athletics at the Institute have continued their steady growth. There are now sixteen different sports in which varsity teams are participating in Intercollegiate Competition. Two sports which are new to the Institute have sprung into existence during the past two years. They are Lacrosse and Squash. Practically every sport which is recognized in college circles is included in this list except football and baseball. However, in both of these, interclass competition is carried on.

This steady increased interest in athletics is manifested not only in the number of recognized sports but also in the constant increase in the number of students actively engaged in competition. This number constituted over a third of the undergraduate enrollment during the season of 1928-29.

The expenses of carrying on these athletics are borne by students through the payment of undergraduate dues. The net expenses of A. A. during the past year were slightly in excess of $15,500. This year the budgeted expenses show that an increase of approximately two thousand dollars can be expected.

The now famous Bulletin 23 of the Carnegie Foundation gives Technology athletics a clean bill of health, listing the Institute with 28 of the other American colleges which were investigated as having no evidence that athletics were subsidized by any group or individual.

Outstanding among the results of last year's season are the successes of the Basketball, Crew, Swimming and Gym teams. In each of these sports the largest institutions of the East were met and results prove conclusively that Technology is forcing itself into a high place in the intercollegiate sport world.

The success of each team is not, however, based entirely on the number of victories won during its season, but on the number of men which derive benefit from competition in that sport. The object of athletics at Technology has always been to give the most benefit to the maximum number of men.

SOCCER

Soccer has advanced as an Institute sport with great strides during the past few years. Three years go the services of William Welch were secured as coach of the team. Mr. Welch formerly coached at Harvard and at present is president of the New England Soccer Referees Association. Through his efforts a Freshman team was developed and for the past two seasons it has been recognized as a regular M. I. T. team in good standing. From this group come a number of men that have gained experience in intercollegiate competition and have learned the game as it is played at Technology. A spring schedule has been arranged with many of the amateur teams in this vicinity, resulting in practice that has proven invaluable to the men during the following season. Both during the spring and fall the men practice five afternoons a week. For the past season the average squad was eighteen men.

The past season was very successful, resulting in the team winning from Tufts and State Normal and tieing with Brown and Harvard. The student body seem to take a much greater interest in this sport than ever before. Edgar M. Hawkins '30, was captain for the past season, and S. Gilbert Ryan '31, has been elected to this position for next year.

FENCING

Under the able and patient tutelage of Coach Roth, fencing at the Institute has grown consistently for the past several years. At present there are some twenty odd men engaged in regular practice, with Captain Standish Deake coaching the Freshmen. The 1929 team, under Capt. Carl Harris '29, displayed splendid spirit and fight, and although opposing tremendous odds, came off with a fair share of victories. The 1928 team, also captained by Carl Harris, was fortunate in having three exceptional men; Harris, Ferre '30, and Siller '28.

Among the shining lights of Technology fencers in the past is Joseph Levis, who is now National Foil champion and is on the winning Three Weapon Team and on the Junior Sabre Team. Mr. Levis was a member of the last Olympic Fencing Team.

The schedule for the coming year includes Navy, Columbia, Bowdoin, Harvard, Dartmouth, and Penn. The season promises to be a most interesting one, and the men are looking forward to a successful year.

CREW

Technology Crews have been improving steadily during the last few years. As a measure of this fact, the most outstanding example is the record of the last three races with the Navy. In 1927 we were defeated by two lengths. In 1928 the Navy, by a powerful sprint, defeated us by the narrow margin of three feet. Last year the season was begun with a decisive defeat of the Navy with a three-length margin. This accomplishment brought to Technology the acclamation of sportsmen everywhere. In the remainder of the 1929 season, Technology won over the Harvard crew in a triangular regatta, but was defeated by a length by Princeton in the same race. The entry of M. I. T. in the Poughkeepsie Regatta last year came as the realization of a long hoped-for goal. It is hoped that this precedent can be followed in the future.

If the general upward trend in the calibre of the crews turned out at the Institute is held in the coming seasons, Coach Haines will develop an excellent crew. There is good reason to believe that such will be the case as six of last year's crew are back to row and in addition there is excellent material from last year's Junior Varsity and Freshman squads.

Head Coach William Haines has assisting him this year Warren Dolben, '29, for the Freshmen and Charles Conwell for the 150 pound Crew. Dolben rowed for three years on the Technology Varsity, and Conwell was formerly a stroke oar of Princeton. This staff of three men is ready to help produce the best crews that have had the honor of representing Tech on the water.

GYM TEAM

During the last few years, the Gym Team has rapidly come to the front in Institute Athletics. The preceding four teams have all had excellent records, and the high mark of its history was reached in the 1929 season when the wearers of the Cardinal and Grey tied the U. S. Naval Academy for Intercollegiate honors.

Among the outstanding performers of the last few teams are such stellar performers as Waller, Stephenson, Fairchild, Dolloff, Moore, Wells, and Cooper. These men represent the exceptional in all the branches of gymnastics, and among them they have won ten places in Intercollegiate Gym Meets. However, not all the credit for the splendid records of the teams goes to these men, for it is due to the consistent second and third place winners that team victories come.

The prospects for a winning season this year are excellent. Captain Wells and four other letter men form the nucleus of the squad. Bowdoin, Princeton, Army, N. Y. U., Temple, Navy and Dartmouth will offer strong competition, but the strong teams of the last few years, and the popularity of Gym should prove the background for a banner year, culminating with the Intercollegiates at Walker.

SWIMMING

Teams representing the Institute in swimming the last two years have been as different from those of longer ago as the new Technology is different from the old Institute on Boylston street. Four years and longer ago the team would occasionally have one or two men of near-stellar calibre while the rest would be able to do little but finish in their respective events. The old New England Intercollegiates were entered with regularity with Tech in last or next-to-last place as the usual result. It used to be decided by lot as to which of the members would perform on the springboard: it could hardly be called diving.

Recently a much more uniformly strong team has been the rule rather than the exception. Last year the team won an encouraging majority of its meets and was second to Brown only in the New England Intercollegiates. Many New England Intercollegiate Swimming Association records were approached and several were lowered by last year's team, while new Technology records were made in nearly half of the events. This year two of last year's star performers are missing. This is unfortunate but so much so that the prospects for a successful season are appreciably diminished. The freshman team is so unusually promising that we dare make no predictions for fear of being called over-enthusiastic. At any rate they will more than replace all those lost through graduation after this season. All in all the prospects have been brightening, and if certain rumors that Tech is soon to have a swimming pool are correct the teams should furnish adequate competition for anyone.

TRACK

As an entirely new scheme this year Coach Hedlund has devised a system of points that will rate each freshman who is substituting track for P.T. Besides determining the rating of the competitors, this system is calculated to stimulate interest because of the medals it is planned to award at the end of the year.

By the new plan, each man is required to attain suitable records in seven out of eight events, namely the 45-yard dash, the 440-yard dash, the 880-yard run, the one mile run, the 45-yard low hurdles, the shotput, broad jump and high jump. Anyone registered taking 80% freshman subjects is allowed to compete for the medals, and each one is given only a limited number of trials. The maximum score that anyone may attain is 100 in each event, and the one having the highest rating at the end of the season on March 29, 1930.

During the last year, one record has been equalled, and another record has been broken. Bror Grondal '31, made a new record of 43 feet 10 inches in the shotput, and Philip Benjamin tied the high jump record of 6 feet ½ inch. There is a regular scheduled interclass meet on the boards every year now, and the competition is becoming keener with the greater numbers of men entering the competitions. There is some sort of a handicap meet every Saturday afternoon, and these meets are very popular.

RIFLE TEAM

As a member of the N. R. A. New England Intercollegiate League, the Varsity Rifle team went through the season 1927-1928 without a defeat, winning the New England title. Norwich University furnished very keen competition, being beaten by only 7 points in a 1500 point match. In the subsequent N. R. A. Shoulder-to-shoulder Intercollegiates for the Eastern title, M. I. T. finished second, losing to Columbia champion in its own league by 4 points. In a post-season match with George Washington University, national champions at that time, the team lost by only 40 points. From the R. O. T. C. members of the team, the five leading scorers were picked to fire in the Hearst Trophy match. This match was won by M. I. T. for the Eastern section, the Institute receiving silver shield now hanging in Walker Memorial.

In the season 1928-1929, in spite of the fact that the best men of the previous year's team had graduated, the team built up a better record. All of the N. R. A. New England League matches were won by overwhelming scores, the margin of victory ranging from 50 points to 300 points in 1500 point matches. In shoulder-to-shoulder matches with local teams, M. I. T. proved invincible, defeating the Marines, a number of National Guard teams, the 1st Corps Cadets, and Boston University. Making a trip to New York to shoot against C. C. N. Y., which was the best team in the N. R. A. league embracing Pennsylvania and New York, M. I. T. won decisively by 70 points.

LACROSSE

A group of undergraduates met in the early part of April, 1929, to discuss the advisability of starting a Lacrosse team at the Institute. At this meeting, some thirty men expressed their willingness to support such a project. Robert Sauerwein, then a senior, offered his services in the capacity of coach. He was a member of the 1927 Johns Hopkins varsity which later became the Olympic champions. At the same time a committee was formed to carry on the administration of the sport. Games were arranged with Boston Lacrosse Club, Brown, Harvard, and Boston University. Funds were generously supplied by the Alumni through the Advisory Council and equipment consisting of sticks, balls, and goals was purchased. A meeting was held and William Olmstead '29, was elected captain for the coming season.

As the season for Lacrosse was already well under way, two practice games were played with Boston Lacrosse Club during the following two weeks. On May 7 an informal game was played at Harvard, the Institute team losing by a score of 4 to 1. Four days later, both the varsity and frosh teams journeyed to Providence where they met Brown. The frosh lost 3 to 0 and the varsity were beaten 18 to 4. On May 19 the varsity played the last game of the season with Boston University losing a hard fought game by a score of 3 to 1.

(Continued on Page 12)

A REVIEW OF THE YEAR'S ACTIVITIES

VOO DOO

Voo Doo is Technology's jester. It aims to be an antidote to the more serious side of Institute life, and is taken in a thirty-two page dose once a month. The presence of the Architectural Courses at Rogers has served to furnish Voo Doo with art work that is superior to most college comics. Its literary work is the product of such of these queer geniuses having ability in the art of being witty as can be found in a technical institution. As the candidates are not expected to be experienced in the production of a comic publication, the managing, literary and art editors endeavor to become personally acquainted with their candidates so that they may aid and direct the efforts of new men. The rapidity with which candidates develop under this system is gratifying both to a candidate and the editors.

The business department offers a wide field of choice with the problems of advertising, circulation and publicity. Each one is vital to the success of the magazine. The business experience that a man gains in the pursuit of his duties in this department is alone worth the effort that a fellow puts into it. In the early stages of the competition business candidates are given assignments in each of these departments and later are given the opportunity of following up that phase of the business department that they deem best.

This competition in the literary, art and business departments is continued until the April number, at which time successful candidates are elected to the staff and presented with Voo Doo charms in recognition of their work. They continue on the staff for another year and the successful men are then elected to board positions.

T. E. N.

Bringing to a close the first decade of its history, THE TECH ENGINEERING NEWS, or the T. E. N., as it is usually called, looks forward to another year of growth, based on experience of the past.

During the eight issues of Volume X, efforts have been made to make the magazine more interesting from a personal standpoint, and for this reason Faculty Sketches of prominent instructors were instituted, as well as brief accounts of the authors of the articles in each issue. Through the use of an increased number of illustrations and a more artistic presentation, the appearance of the publication has been improved.

At the annual convention of the Engineering College Magazines Associated held at Purdue in November, the T. E. N. received awards in three out of four competitions which it entered, in comparison with twenty other publications. The prizes were first for the best single editorial of the year, and third for the best illustrations and for the best cover design.

The articles have been on subjects of timely engineering interest. Some relate to particular technical phases of a certain field, others deal with ideas which apply to science and the engineering professions as a whole. A recent "scoop" is the article on the sixteen-cylinder Cadillac in the January issue, almost simultaneous with the first public appearance of the new car at the New York Auto Show.

At present, a new Managing Board, that of Volume XI, has just come into office, and constructive plans are already being developed to further raise the standards of Technology's undergraduate professional journal.

T. C. A.

During the past three years, the Technology Christian Association has expanded throughout its entirety and shows promise of continuing this expansion in the future. The Employment Bureau, under P. N. Aborn's guidance, has been able to give an ever increasing amount of help to the students. Last year it placed 391 men in jobs which paid $59,000 in salary. The Association also prints and distributes free, 2000 Handbooks telling of the ways of the Institute, also acting as a guide to the undergraduate activities. A copy of this book is sent to every freshman and transfer before he arrives at the Institute. The other activities of the Association which have been carried on in the past years have been continued—and enlarged where possible.

The Association is in its second year of Tech-in-Turkey. In this project, a Tech man is sent to Robert College, Constantinople, by the undergraduates of the school. He acts as an assistant professor at the college.

Many and varied are the new projects of T. C. A. A Theatre Service has been installed, selling tickets to all the Boston shows at regular prices. Last year its business totalled around $5000, and it still is growing. Another innovation is the Travel Service which permits students to obtain rail, steamer and Pullman tickets on the Institute grounds.

WALKER MEMORIAL

Walker Memorial is coming back once again to be used as the Alumni originally intended—that of a social and recreational center for the undergraduates of Technology. The past year has seen a great deal said and written urging the students to use Walker more as a social center, and the results at this time seem most gratifying.

In the first place and perhaps most important is the fact that this year the Junior Prom is to be held in Walker Memorial—the first time for many years. Also the Senior Prom, hitherto held elsewhere, returned to Walker and enjoyed a most successful dance in December. Then, too, the Interfraternity Conference as well as the Freshman Dance Committee are planning to hold one of their gala affairs in Walker. In years previous all the above named social events have been held in the various hotels around Boston. In addition to these major events there have been the activity Tea Dances and Basketball Dances also.

The purpose of encouraging the "Use Walker" campaign is twofold (1) To try to have the building used for the purpose it was primarily intended, (2) To show the inadequacy of the building in its present condition. The building is overcrowded. There is not room enough for the many activity offices. When the major social events are held the entire dining service has to pick up their things and move outdoors. If it were not for their cooperation in their transitions there would be few social activities of note in Walker. In spite of this, those responsible for the "Use Walker" campaign feel that they have at least kindled a spark in the minds of the undergraduates as shown by the fact that the biggest event of this year—Junior Prom—is to be held in Walker Memorial.

TECH SHOW

Those Alumni who have been out of contact with the Institute and the Show for the past two years will have a new type of Show to welcome the next time they sit down for their evening's entertainment at the now traditional Tech Show. For, as the Minstrel Show of 1899 gave way to the Melodrama, and that in turn gave way to the Musical Comedy, so has the latter had its position usurped by the now popular Musical Revue.

The 1929 Show was the pioneer in the latter type of endeavor. Its success will be recounted by those who accepted the opportunity to see it. "A Tech Riot" the 1929 Production, threw away the burdensome plot of the Musical Comedy and by the use of short, but none the less humorous skits, put across the stimulating touch which had been the object, but almost the despair of more than a few managements. "A Tech Riot" was headed by V. W. McDaniel '29, the chorus coached by Langdon Matthews and the cast by William C. Greene of the Institute Staff.

With the closing of last year's Show the 1930 management set to work to see if the record for the previous year might be bettered. The basis was laid for another Musical Revue and the writers went to work. Out of the efforts of J. C. Cleveland '31 and Adolph Fiebel '32, the authors of the coming Show have risen the "Snobberies of 1930."

The premiere performance of the "Snobberies of 1930" will be given at The Fine Arts Theatre, Boston, on the evening of February 18. Other performances will follow on the evenings of February 19, 20, 21, and 22, the performance on the 21st preceding the Annual Junior Prom, which will be held in Walker Memorial. For the convenience of the Alumni, reservations may be made by mail or telephone, though such reservations should be made not later than February 15.

TECHNIQUE

Three of the most important events of the school year are sponsored by Technique. The Technique Cup Award is made each fall at the All-Technology Smoker to the high-point winner of Track during the spring season. Next in order is THE TECH-Technique football game, which has, in recent years, taken the place of the traditional baseball game between Technology's two oldest publications. The Technique Rush is held on the afternoon of Open House Day in the spring, at which time the elections to the Managing Board are announced and the books distributed.

It is interesting to note that the 1927 Technique contained a Project Section, the purpose of which was to present in pictorial form some of the notable achievements of Technology's Alumni. The 1928 volume was dedicated to the memory of the late Dean Talbot and had "Transportation" as its theme. Technique in 1929 was dedicated to Professor Merrill, Secretary of the Faculty.

ALUMNI INVITED BY PRESIDENT STRATTON

(Continued from page 1)
resulted in many contributions to the fundamental data essential to advancement in scientific technical fields, and which serves as the medium through which men are trained in the methods of research. It is especially this phase of the Institute's work that the returning alumni will be given an opportunity to inspect.

S. W. Stratton

Steady Growth of Review Outlined By Dean Lobdell

Editor Recounts History of the Technology Review For Thirty-two Years

By Harold E. Lobdell '17

Now in its thirty-second year, The Technology Review finds itself with a circulation which has more than doubled since the Great War and with an average volume of advertising per issue exceeding the total run in many of the earlier volumes. It has been regarded for some time as the semi-official magazine representing and reflecting Institute thought and opinion to the Alumni and to the general public

The Review first made its bow on December 20, 1898, in a number dated January, 1899. It was a quarterly magazine, in format of the so-called standard size, printed on antique stock with tipped-in half-tones and photogravures, all wrapped in a somber brown cover—the style of apron which was to persist for nearly a quarter of a century. The current format, issued monthly, was adopted in 1922. At first The Review was published by the Association of Class Secretaries, but later was taken over by the Alumni Association.

Three men may be considered as the founders of The Review: Arthur D. Little, '85; the late James P. Munroe, '82; and C. Frank Allen, '72. Mrs. William Barton Rogers advanced them one thousand dollars as a guarantee fund, they appointed Arthur T. Hopkins, '97 as Editor, and The Review became an actuality. After three numbers, Mr. Hopkins resigned; Walter Humphreys, '97, the present Secretary of the Corporation, was Editor of one number, and with the beginning of Volume 2, Mr. Munroe assumed control. For eight years he labored until, in 1908, he transferred the responsibility to Isaac W. Litchfield, '85, who served for nine years. In 1917, Robert E. Rogers became the fifth Editor and continued until 1922, at which time he was succeeded by the present incumbent, H. E. Lodbell, '17. From 1922 to 1927 Eric F. Hodgins, '22, was Managing Editor, he being succeeded in the latter year by the present Managing Editor, James R. Killian, Jr., '26.

At the present The Review ranks sixth in the United States among Alumni magazines in total circulation, but its "percentage circulation" among Institute Alumni, far exceeds that of any other college or university. Four copies of The Review are sold for every eleven known Institute Alumni.

H. E. Lobdell '17 Appointed To Fill Position of Dean

Occupies Chair Left Vacant by Death of Dr. Henry P. Talbot in 1927

(Continued from page 1)
reporter to general manager. During his fourth year at college, the World War broke out and he left school to enter the service, along with more than half of his classmates. He attended the First Officers' Training Camp at Plattsburg Barracks, and was commissioned a Second Lieutenant of Infantry, and later was promoted to First Lieutenant. He served at Camp Devens, Mass., and later as Transport Personnel Adjutant on the U. S. S. Peerless.

Dean Lobdell's service at Technology began when he joined the staff of the Endowment Plan in October, 1919. He was later appointed assistant to the Director of the Division of Industrial Co-operation and Research, holding that office until his appointment as Assistant Dean in 1921.

Mr. Lobdell has published two books for the Institute, and has taken an active interest in alumni affairs ever since he became connected with the school. He has been a member of the Alumni Council, of its Nominating Committee and various other subsidiary committees. As chairman of the Scholarship Committee he organized it into a smoothly working system. In addition to his regular duties, he has been in charge of freshman registration for the past few years.

Dean Lobdell is a graduate of Course IV. He is affiliated with the Engineers Club and the University Club in Boston. In this latter organization he is a member of the Executive Committee. Since 1915 he has been a member of Pi Delta Epsilon, the national journalistic fraternity, being at present its national secretary. He is also an active member of Phi Kappa Sigma fraternity, and was a member of the Commission on Survey of the Fraternity for several years before his resignation in 1928.

NOTICES - ANNOUNCEMENTS

Of General Interest

Use of Lumber — **Mr. William F. Shaw**
Friday, January 17, 1 P. M., Room 5-226

Mr. William F. Shaw of the National Lumber Manufacturers Association will give a lecture on "Correct Uses of Lumber in Construction." This lecture will deal with some of the common mistakes that are made in selecting lumber for construction and the correct lumber to use.

Open to students and members of the instructing staff.

Aldred Lecture — **Dr. C.-E. A. Winslow**
Friday, January 17, 3 P. M., Room 10-250

Dr. C.-E. A. Winslow, Professor of Public Health at Yale University, will be the speaker for the second Aldred Lecture in the series. The subject of the lecture will be "Health Conservation—A Problem in Citizenship."

Open to seniors, graduate students and members of the instructing staff.

CALENDAR

Wednesday, January 15
7:00—Varsity Basketball Game, Technology vs, Middlebury, Hangar Gym

Thursday, January 16
7:00—Faculty Club Party, Main Hall, Walker Memorial.

Friday, January 17
1:00—Lecture on "Correct Uses of Lumber in Construction", Room 5-226
3:00—Aldred Lecture, Room 10-250. Subject: "Health Conservation—A Problem in Citizenship."
5:00—Photographic Society Meeting, Room 5-130
7:00—Fencing Team Meet, Walker Gym
8:15—Hockey Game, Technology vs. Northeastern, Boston Arena

UNDERGRADUATE

COLLEGE TRANSFERS

All College Transfers who are planning to take the special examination in history scheduled for 1:30 P. M., Friday, January 31, but who would prefer to take it at 1:30 P. M., Tuesday, January 28, are requested to sign the petition in front of the Information Office immediately.

PHOTOGRAPHIC SOCIETY

There will be a meeting of the Photographic Society at five o'clock on Friday, in Room 5-130.

INTERCOLLEGIATE BALL

Persons who are planning to attend the annual Intercollegiate Ball to be held at the Copley Plaza Hotel on February 14th are reminded that they may secure tickets from Harmon J. Truax at THE TECH business office, and from the cashier in charge of the recreation halls at Walker Memorial basement.

FOUND IN ARMORY

The caretaker of the Armory has found a grey overcoat, made in Lancaster, Pennsylvania, which was left there by some freshman at drill recently.

TECH SHOW CAST

There will be a rehearsal of the Tech Show cast tonight at 7:30 o'clock in the Walker Gymnasium.

TECH SHOW CHORUS

There will be a rehearsal of the Tech Show chorus, Thursday night in the Walker Gym at 7:30 o'clock.

TECH SHOW ORCHESTRA

There will be a rehearsal of the Tech Show orchestra this evening at 5:00 o'clock in the East Lounge of Walker Memorial.

TECH SHOW PICTURES

The pictures of the Tech Show cast and chorus will be taken at 9:30 o'clock Sunday Morning in the Commons Room of the Rogers Building. All men in the cast and chorus must be present.

S. A. E. MEMBERS

All Faculty members and student enrolled members of the Society of Automotive Engineers are asked to report to Room 11-004 this afternoon at four o'clock for a group picture of the M. I. T. branch of the Society.

Varsity Hockey Six Is Playing At Williams Tonight

Team To Meet Northeastern in Double-Header at The Arena Friday

After preparing by a practice game with the Boston Hockey Club Monday night and a regular practice yesterday morning, the hockey team left today for Williamstown, where they will meet the strong Willams College six tonight. This is one of the big games and the Engineers, led by Captain Cullinan, are out to wipe off the defeat at Harvard's hands by a series of victories.

Northeastern Game

In order to iron out any weaknesses uncovered in the Williams game tonight, practice will be held tomorrow morning, and when the team goes on the ice Friday night Northeastern will meet a smoothly working combination. The Northeastern tilt is a part of a double-header at the Arena in which Boston University and Bowdoin will complete the bill.

The probable starting line-up tonight will be: Captain Cullinan, right wing; Hall, left wing; Lucey, center; Hazeltine, right defense; Peterson, left defense; and Riley, goal.

Last Game This Term

Since the Northeastern game is the last of this term, all hockey fans will want to take advantage of the opportunity of seeing Technology's snappy team in action as well as three other sextets well-known in this section.

Saturday afternoon the freshman team crosses sticks with Arlington High School at Arlington. The starting time is set for 2:30 o'clock. The yearlings are coming along nicely and Coach Bill Stewart is pleased with the showing they have made both at Andover and in practice scrimmages.

Freshman Rules Will Terminate At End of Exams

Institute Committee Approves Change in Date After Consideration

(Continued from page 1)
Thursday, May 27, 1927, that all freshmen in the years to come should be subject to certain defined rules governing their conduct. This action was taken following the receival of a draft of these rules submitted by a committee of the Class of 1930. However, it was finally decided to adopt a revised edition which had been proposed and submitted for approval by the Executive Committee.

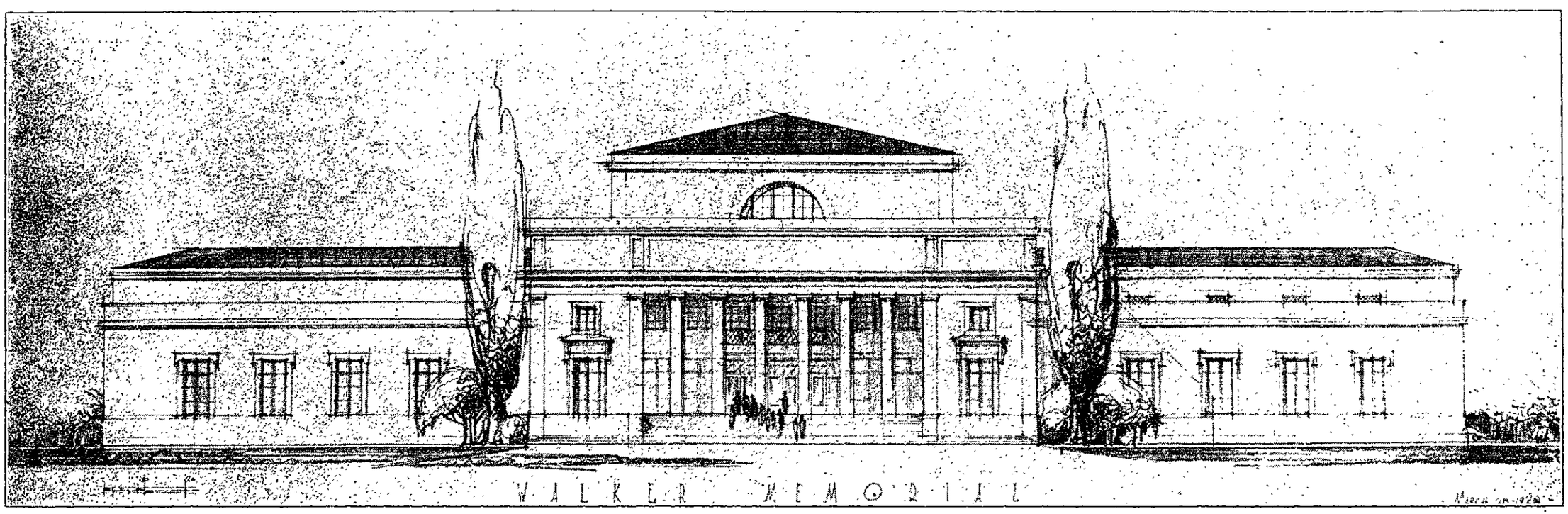
The original incentive for the adoption of freshman rules, was the idea that they would serve the purpose of bringing about a more congenial spirit at Technology, and foster a greater interest in the Institute among the members of the entering class. Consequently, these rules did not include measures of such nature that they would be likely to humiliate the members of the lower class.

At the time when the Freshman Rules should come to an end, it was planned to have a big rally of the freshman class to celebrate the fact.

After the rules had been definitely decided upon, it was thought necessary to inform the incoming freshmen, the Class of 1931, about them. Since then the Freshman Handbook of each year has contained a list of the freshman rules. In addition to this the rules have been sent to the entering freshmen along with the registration material, which is sent out during the summer. Those attending the freshman Camps have also had the rules stressed, and by these means practically all of the lower classmen have been made acquainted with the freshman rules.

Study Showing Possible Changes In Walker

Sketch Made for Corporation by the Architect, H. J. Carlson '92



"Small Incidents Often Determine Careers" — Little

"Circumstances, small and trivial ones, often determine the career that a man enters upon. This was true in my case". Thus spoke Dr. Arthur D. Little '85 last Monday to the Class of 1933. He then told of a youthful experiment that started him on his long and successful career in chemistry.

In this lecture, the third of the series being given to the freshmen, Dr. Little spoke on the general subject of "The Science and Profession of Chemistry". He defined chemistry as being "concerned with the properties of matter and the changes which it undergoes", and continued to describe some of the enormous strides made by it in the last century.

"Of particular interest," he said, "are the advances and discoveries made in the fields of the discovery and use of the inert gases; the fixation of atmospheric nitrogen; and the development of cellulose and nitro-cellulose products".

Students Acclaim Walker Changes; Plan Would Make Main Hall Lounge

(Continued from page 1)

This year has witnessed a re-awakening of student and faculty interest. On the part of the Institute authorities this interest has taken the form of effecting such changes in the existing rooms as were possible. Musicians and speakers deplored the acoustics of the Main Hall. Investigation by a group of engineers divulged the fact that stately drapes from the balcony relieved this difficulty, and they were installed. Furniture has been purchased, and the beauty of the small dining rooms has been enhanced by the use of new lights and hangings.

Students Show Approval

With the decision of the Junior Class to hold its annual Promenade in Walker, the campaign was given impetus. For the first time in its history this all-important event is scheduled in the student building. The committee is enthusiastic with the success of their plans, and with Paul Specht's music as a "drawing card," guarantee a delightful evening.

The Senior Dance on December 13th was the first major event on the social program. Pronounced by faculty and alumni guests the best Senior Dance in many years, it was enthusiastically approved by the Seniors and their girls. The lighting and sound effects were tried for the first time, and a new preparation used on the floor removed the usual objections to the non-resilient surface.

Initiating a new idea at the Institute, the first of the series of dances followed the Technology-Norwich basketball game last Saturday evening. The Main Hall was crowded with dancers, and according to the basketball manager, the affair was a pronounced success financially. It is planned to hold such dances throughout the season.

Dinners and evening functions in the building have put Walker rooms at a premium. Usually three or four such affairs are held each week and include faculty and alumni dinners, entertainments of professional societies, and activity meetings. The Dormitory dances are always held in Walker.

Tentative Plan Suggested

The drawing printed above is a study by the architect, Harry J. Carlson '92, was made for the Corporation and is printed through the kindness of President Stratton. While distinctly a tentative plan of re-modelling, it embodies the features of Walker included in the original plan.

The east wing of the building would house the dining service, the west wing an auditorium, while the present kitchen would be occupied by a grill-room. Small lounges would separate the wings from the Main Hall, which would be furnished as a large lounging room, as was originally intended.

Women in Boston University play an important part in life, as much, even, as men. One reason for this feminine prominence is that the co-eds annual numbers approximately six thousand.

59 Men Wanted By Navy For Reserve Aviation Course

Fifty men are wanted by the Navy for training as reserve pilots at Squantum and Pensacola. There will be a naval officer from the Squantum naval reserve aviation base stationed in building 33 each Tuesday and Thursday afternoon from 3 to 5 o'clock.

Any college graduate is eligible. The course consists of a 30 day elimination course at Squantum where the men will get primary flight training and 10 to 15 hours in the air. Upon the successful completion of the elimination course, the students will go to Pensacola, Florida for advanced flight training for eight months. The advanced course will include approximately 200 hours of flying in all types of land and sea planes.

Some of the men will be expected to go with the fleet for one year as commissioned officers. The training is the equivalent of that now given to naval officers and aviation pilots in the regular naval aviation service.

LIFE OF GREATER TECHNOLOGY

ENROLMENT PASSES 3000 MARK THIS YEAR AT INSTITUTE

Tuition Is Raised to $500 Due To Expenditure of $850 Per Student

ALTER MARKING SYSTEM

Homberg Infirmary Is Dedicated For Care of Students' Physical Health

Provision for a "Greater Technology" is evident in the activities of the Institute since the fall of 1928 and the continual opening of new opportunities in student life and in the educational fields has maintained the fine reputation which M. I. T. now possesses.

The enrolment has now reached 3020 students, the freshman class of this year numbering 700. The construction of buildings and the increase in dormitory capacity has enabled the increased number of men to fit into the school and reap its advantages without noticed inflation or overcrowding.

Popularity of Courses

Popularity of courses has changed slightly in the main fields. Mechanical, Aeronautical, and Chemical Engineering have greatly increased their registration while Civil Engineering has decreased; with Engineering Administration, Architecture, and Electrical Engineering remaining constant. A greater patronage of the cooperative courses has existed and graduate registration has increased.

The opening of the school year is more difficult for the freshmen than the other students and an attempt is being made to make them feel more at home when they enter the Institute. The Technology Christian Association holds a freshman camp a few days before school each year at Dunstable, Massachusetts where the incoming class members get an opportunity to know each other and are instructed in the history, tradition, and Life at Technology. Each successive year that the camp has been in operation there has been a greater number of the new men attending.

Fraternities Seek Pledges

Fraternities begin their search for pledges immediately and look over the men as soon as possible. A great majority of a class do not join any fraternity, but those who do usually pledge so that they are full members at the middle of the year.

As soon as the year is well under way and every one has had a good taste of the work for the year, a smoker is held to which every man in the Institute is invited. This "All-Technology Smoker" includes in entertainment and presentation of prizes and a number of talks by prominent members of the faculty and the student body. The smokers of 1928 and 1929 have been very successful and have put everyone into a working mood again.

Hoover Visits Institute

Early in the fall of 1928 Hoover was touring the country in preparation for the presidential campaign and practically the entire student body greeted their fellow engineer as he passed. The Republican nominee was late and was not able to speak as was planned, but the crowd of engineers assembled with nothing to do in Hoover's tardiness amused themselves by carrying autos around and feasting from a pie wagon which they had stopped.

Annually the freshmen and Sophomores have the day on which they match their skill and strength. This "Field Day" was won by the class of 1932 in both their freshman and Sophomore years. There is a crew race, a football game, a tug of war and a relay race. Then a glove fight is held on Tech Field. This contest is a wrestling match in which all the members of both classes participate regardless of number and attempt to take the gloves off the hands of their opposing class. Each man wears a glove, the freshman a white one and the Sophomore a red glove. Due to the number of freshmen they have always been victorious in the Glove Fight. The Sophomores are always handicapped by having weathered two terms of M. I. T. work.

Infirmary Dedicated

In November 1928 the Homberg Infirmary was dedicated to the Institute. This hospital is equipped to handle all the physical attention which the students need and charges to the patients are very small. A steady average of about ten men are quartered there and the nurses are busy all day with minor ailments. All the physical examinations are done by this department for participation in sports and for freshman physical training. Each student is required to take an examination each year.

Each year there are two sets of standard lectures and a group of musical concerts. The Society of Arts has sponsored a Popular Science Lecture series in which different professors of the Institute give a lecture within their field to the high school students, the public and the school. These lectures are well attended and are given in a style which anyone is able to understand. Nevertheless they are scientific enough to hold the interest of many of the students.

Aldred Lectures

For the Juniors, Seniors and members of the Instructing Staff a group of Aldred lectures are held. Men are brought to the Institute from many of the large companies and give advice and experiences in their field to the students, and try to help the men decide what branch of the engineering they are studying they should go into as a life work. An attempt is also made to acquaint the men with the "where to get what you want" ability.

Mr. Arthur Whiting gives a series of pianoforte recitals for the students to keep them informed in the musical field. Not that the engineers would not otherwise attend musical concerts, but that the students are rather anxious to hear more of the things which are outside of their regular curricular life.

Junior Promenade

Socially the biggest thing at the Institute is the Junior Promenade which will be held in Walker Memorial this February. On this occasion last year Miss Polly Walker was chosen as the Prom girl and led the entertainment at the dance. Leo Reisman's orchestra furnished the music in 1929 and the 1930 music makers will be the orchestra of Paul Specht.

Before the dance the couples usually see the annual Tech Show. Tech Show 1929 was given the title of a "Tech Riot" and was a series of skits and dance and song numbers. Other performances are given in Boston, but this year the "Snobberies of 1930" will go on the road after its local presentation. Dramatics is handled through a member of the English department of the school and the "Dramashop" presents plays at different times during the year.

Investigation of Voo Doo

Voo Doo, classed as a college comic, and a famous rival of THE TECH, ran into serious difficulties and financial success when they published a "Back Bay" issue. The policy of the comic was investigated, due to the type of joke which was printed in their most popular issue of the year. The Managing Board was removed and a new crop of punsters grew into their places.

The Senior Endowment of 1929 exceeded that of previous years and is an attempt to allow the students to give money to Technology without a large expense at first. The dividends on life insurance policies are given to the school and the graduates of one class in this way give $75,000 without an apparent effect on their immediate resources. This year the committee in charge of the endowments has started work very early hoping to make the class of 1930 the greatest donor class.

The Circus

Spring spirit is allowed to boil over in the form of a circus or carnival. At this affair, which is held in the armory, booths are erected by the fraternities and organizations on the campus and hell is raised thoroughly. All that is left on the following morning is a remarkable entanglement of boards and materials and a healthy profit. The money which is made goes to a needy cause and to pay for the damage done to the armory.

Open House

Giving the public an opportunity to see the inside activities of "that pretty factory on the Charles" the students have an Open House Day in spring. The attendance is about 30,000 scientific admirers and playful school boys. Demonstrations and exhibits are set up in all parts of the building and every room is open for inspection. The Institute is a solid mass of lights and the crowds require the freshman R. O. T. C. to handle them.

Not only are outsiders allowed to see the work at M. I. T., but many of the students have no other chances of seeing the research and study in other departments than that which they are in. Students are drafted to do work in the laboratories and many welcome the chance of catching up on past work while they are on exhibit.

Famous Speakers

During the 1928-29 school year many famous speakers were here, brought by societies and clubs on the campus. Among the most prominent were Roger W. Babson, the statistical expert; Clarence Darrow, lawyer; Mr. Georges Claude, tide expert; Victor M. Cutter, United Fruit Company president; Gipsy Smith, evangelist; Werner Heisenberg, authority on the quantum theory; and Ralph A. Cram, architect.

Harold E. Lobdell '17, after being Acting Dean for two years after the death of Dean Talbot, was elected by the Corporation to the office of Dean. A special edition of THE TECH disclosed the information to the student body and gave the history of past deans at Technology.

Tuition Raised

Due to the cost of $850 per student it was necessary to raise the tuition to $500, beginning in the fall of 1931. The tuition was $400 and was increased to this point in the fall of 1928. The losses per student are still constant, but the increase in enrolment has decreased the per capita endowment which others have provided for the student body.

A change in the marking plan has been made to distinguish between a passing grade with a large margin and one without any. The marks have been Honor, Credit, Pass, and Fail, but the new system provides for four passing grades. This change has been readily accepted by the students, but the faculty has not decided whether they will use the A, B, C, D, and F marking scale.

The five year alumni meeting is planned for June 7, 1930 and the graduates will be able to see for themselves the improvement at the Massachusetts Institute of Technology.

University of Wisconsin has stated that 1700 so-called children who entered the University last fall as freshmen will not return this fall. The term children was used by the registrar because the students were found to be lacking in ability to attain the academic level, and because students intended to make the campus a glorified play-ground.

GUGGENHEIM FUND HELPED TO BUILD AERONAUTICS LAB

Expansion of Department Began With Construction Of Laboratory

DEDICATED JUNE 4, 1928

(Continued from Page 3)

extends from the basement to the full height of the first floor. The front section of the first floor is given over to a large drafting and calculating room for the wind tunnel staff, storage space for tunnel models, lockers for students and a library and aeronautical museum. There are also two rooms on the first floor for the use of the Army and Navy staff of the Reserve Officers Training Corps Ground School.

Staff Offices on Second Floor

The second floor is given over to the staff offices, a large and well lighted undergraduate drafting room, a rigging laboratory and two research rooms for assistants. The third floor has a large drafting room for graduate students, a laboratory for testing the various materials used in airplane construction, two large and airy class rooms and laaboratories for research in meteorology, instruments for avigation and studies with air and water flow models. This room also contains a dark room specially equipped for photographic work in connection with aeronautical research.

The rigging laboratory, one of the most interesting and important, was designed to accommodate two full sized airplanes and in this room sand load tests will be made. In the materials testing laboratory is a Reihle Universal testing machine with a capacity of about 50,000 pounds. Another machine in the room is a device for testing the strength of ribs.

On the roof of the new building is a platform fitted with devices for meteorological observations and instruction in the use of avigation instruments.

The aeronautical building is automatically ventilated by a system which eliminates the customary cumbersome ducts and vents, this saving much valuable space.

Evolution of Technology Newspaper Extends Over Period of Fifty Years

Publication of Undergraduate News Marked by Growth of New Departments

This isue comes as the inauguration of one of the many changes that have occurred in the policy and makeup of THE TECH ever since its start in 1881. It is the first of what we hope will be a series of annual alumni issues which will be sent to as many of the alumni as possible giving them a fairly complete synopsis of the undergraduate events for the year.

When it started, THE TECH more closely resembled college and prep school magazines which have the deserved reputation of coming out "every now and then." Before 1881 there had been several spasmodic attempts to put out a Technology publication, but none of them had had even temporary success, and they subsided as quickly as they arose. The first issues of THE TECH were conservative twelve-page numbers filled mostly with articles on engineering subjects, with no systematic recording of undergraduate news except athletic events.

Becomes Bi-Monthly

Since the directors of the first volume had been primarily interested in the continuance of the paper, it became possible for the board of the second volume to make the paper a regular bi-monthly, and in that form it continued for ten years. Then came the first big step forward, in 1892 THE TECH became a weekly magazine.

Now the paper had a chance to include more real news of the Institute, and as a result the sort of stories and articles previously run were dropped; THE TECH became a news-magazine. However, this change put the publication in dire financial straits, and it was not until nearly 1900 that the paper could really be termed prosperous. At that time, it was similar in makeup, quality and appearance to a miniature T. E. N. although the content was different.

Due to its increasing prosperity, THE TECH now made another step forward, in 1903 it became a four-column, four-page newspaper appearing three times a week. It was at this time that the paper first became separated into the news and business departments.

Not satisfied with their success as a tri-weekly, the board of THE TECH changed the paper to a daily in 1909, but from the very start, this step was a failure. The condition of the paper, both journalistically, and financially, became continually worse, until in 1914 in spite of the aid rendered by both the Institute Committee, and the Alumni, the paper had to be returned to the basis of publication three times a week. Curiously enough, prosperity returned almost immediately, debts being paid off in a year.

War Necessitates Changes

In 1916, the paper was changed to a much larger size, containing five columns. The following volumes were caught by the war, and changed by this event a great deal. In 1917, it was found necessary to change the number of issues to two a week, but these were much improved, and carried all the news of the alumni in the war. Hence the name of this volume, "The War-Time Tech."

It took four years before the paper got over the changes that occurred within it during the war, and it was not until 1921-22 that the paper finally returned to the old plan of publication three times a week. However, during this period, the paper had been remarkably successful financially, so much so, in fact that it raised the advertising rates to their present level, and turned in annual profits running into the thousands.

During 1920-21, THE TECH started to put out an engineering supplement to take care of surplus advertising. This was very favorably received, and grew rapidly, with the result that in 1921-22 it became a separate publication, the present T. E. N.

Since the peak of prosperity in 1921-23, there has been little outward change in the newspaper, but internally, it has been restless. The decreasing enrollment of the Institute and the fading memory of the alumni "War-Time Tech" caused a serious decrease in circulation with a resultant decline in advertising prosperity. This trend was fairly persistent in spite of attempts made to stop it such as the replacement of the honor system of sale by newsboys in Volume 46. The low point was reached last year when for the first time since the early days THE TECH ended the year with a deficit.

Recent Improvements

As an example of the more detailed changes that go on within the paper, a recital of the events of the present volume might be enlightening. The printing was changed from an itemised cost system to a flat rate system, resulting in the saving of much labor of checking accounts, not to speak of financial saving. Advertising had been aided considerably by the start of a Business Service department which furnished advertisers with much valuable information. The paper now comes out at noon instead of at 9 o'clock with the result that the circulation is slightly increased, the makeup has been improved, it is possible to get professional proof reading, and considerable financial saving has been effected. In the makeup of the paper, sports are no longer relegated to page three, but are put on the front page whenever their importance warrants it. To do this it was necessary to make drastic changes in the organization of the journalistic departments.

A REVIEW OF THE YEAR'S SPORTS

(Continued from Page 6)

HOCKEY

Opening its season on December 13, the Hockey team defeated Boston University 3-1 after a hard game. Both Varsity and Freshmen are being coached by William J. Stewart for the fifth season.

Prior to last year there was only one ice area in Boston, the Boston Arena. The hockey team practiced and played there. Last year the Boston Garden was completed. This made two rival sport's arenas in Boston. The hockey team reached a favorable agreement with the Boston Garden and practiced and played all except one of their home games there during the 1928-1929 season. During the past summer these two organizations reached a working agreement. The Boston Garden now handles the professional hockey games and the Harvard Team. This forced Technology to return to the Boston Arena.

Due to the calibre of the team and consequent "drawing power," most games have been played away from home. In fact, the hockey team makes more trips than the team of any other Technology sport. The Freshmen have always been handicapped because of lack of practice and games. However, this year a fine schedule of seven games has been decided upon.

New Men Come to Technology As Coaches of Sports Teams

Several changes in the coaching staff of Technology athletics were made at the opening of the fall term of 1929. The new men come to the Institute with creditable records behind them, and consequently much is expected of them by everyone who is interested in the teams. Some of the hopes have already been realized in a most satisfactory manner, while the new coaches are rapidly establishing themselves and their teams in positions of prominence about the school.

Maker of Champs

As head mentor of the wrestling team Jay Ricks came to Technology for the first time this year to take the place of former Coach Bridson Greene. His last position was at Oklahoma Aggies where he wrestled on the team that held the National Championship title. He brings with him an entirely new style of wrestling which has made the Western teams famous in that sport. His system seems to have been successful with the candidates for the Varsity team, many of whom are veterans of last year. In their opening meet they defeated Harvard for the first time in several years, a fact which augurs well for the future success of Coach Ricks and his men.

New Track Assistant

Robert Bowie of Milton began his duties as coach of field events for the track team, taking the place of ex-Coach Bill Meanix. For several years he served as manager of the Athletic Committee of the Boston Caledonian Club, and he has been a devotee of track all his life. At the present time he is President of the Caledonian Club.

Coach Bowie began his coaching career at Colgate in 1910. As an amateur athlete he has made quite a record for himself in the mile and half-mile runs. Later, as a professional, he has performed in the hammer throw and the pole vault. With his versatility and love of the sport he has been able to make his work evident even at this early date.

Professional Squash Coach

Technology was fortunate in securing the services of Jack Summers as coach of the squash teams. This sport has been constantly growing in popularity at the Institute, in spite of the fact the teams have been unsuccessful in winning matches in the past. This year there are even more who make use of the squash courts, and the work of the new coach has been shown in the better style of playing.

Coach Summers resigned his position as squash racquets professional at the Union Boat Club of Boston in order to come to Technology, and try to build up a team here that would be on a par with the other colleges. At present he is the professional champion of New England, and is considered to be better than any amateur in the game in this vicinity. By many followers of the sport he is rated among the best in the country.

Several other changes have been made in the assistant staffs of several sports. Among these is Chick Dolben, who was prominent in crew at the Institute and who coached the freshmen during the fall season. Norman Dolloff, member of last year's gym team is assisting the gym coach this year.

Variation of Only Two Degrees in Heat Furnished by Power House

Uses 12,000 Tons of Coal Per Year; High Efficiency In Operation

With cold damp weather accompanying every student to the doors of Technology, the hoary plume of steam swirling about the base of the Technology power house stack is an unobtrusive signal of light, heat and general comfort.

Recently a professor contemplated carrying on a series of experiments the apparatus for which necessitated the maintenance of a laboratory temperature not varying more than ten degrees. A temperature reporting thermometer was placed in the laboratory and it was found that the temperature actually varied in the 24 hour day only two degrees, a change which took place about three in the morning. There are many factors which make possible such uniform heating.

Efficiency of 79%

Major A. S. Smith, Superintendent of Buildings and Power when interviewed on the subject said that the efficiency of the boilers is around 79%. When asked how this efficiency was produced. Major Smith explained that to begin with, the power house was built and designed by Stone and Webster at a cost of three hundred two thousand dollars and has a capacity of three thousand kilowatts. The crew consists of Chief Engineer, four watch engineers, one boiler room engineer, one coal crane engineer, four firemen and two helpers. The chief engineer is Mr. Carl Peterson who came with the Institute in 1918.

About 12,000 tons of West Virginia coal are used per year. The coal is delivered in hoppers, then carried by endless belt to the crusher house. From there it is taken up to the coal bunkers on top of the power plant and dropped in an automatic scale lorry to stokers of the Riley-Sanford type. The four boilers were made by Babcock and Wilcox. The top of the stack is 185 feet above the street.

The steam Turbo generators consist of one 1500 KVA Westinghouse, one 750 KVA Curtis, one 500 KVA Westinghouse, one 150 KVA Westinghouse. All of these generate current at 2300-volt, 3-phase, 60 cycle. And there is one 150 K. W. Curtis for low voltage direct current. This last is a reserve unit as all direct current is made by 150 H. P. motor generators, the motor taking the 2300-volt current and the generators turning out D. C. at 115-130 V.

There are three main distribution stations although most of the power is distributed from Building 10, that is to say for the Main group. Other distributing centers, each having the proper transformer equipment, are placed as follows. One in the basement of the Walker Building taking care of the student group and the President's house—one on the first floor of Building 38, taking care of all power back of Vassar Street—and one recently installed in connection with Building 31, large enough to take care of that particular group of buildings when completed.

Heat From Exhaust

All steam is generated by the four high pressure boilers. During the school year the Turbo generators are really reducing valves, taking the team at high pressure to generate current, the exhaust steam going into the heating mains, covering practically all buildings excepting the student group. The student group is supplied by live steam produced at 60-lbs. going through an 8-in. main across the campus into Walker Memorial where it is again reduced to 30-lbs. for kitchen purposes and before going to the dormitories it is reduced to about 10-lbs. for heating dormitories and the President's house.

Each year boiler tests are carried on by the Mechanical Engineering Department lasting three or four days and it is during these tests that the efficiency and the cost of steam and electricity is obtained. Last year the cost of a thousand pounds of steam was 49.2 cents with coal about $6.00 a ton. A town of ten thousand inhabitants could be supplied with electrical energy from this power plant as the total consumption of electric current last fiscal year was 2,860,000. The question is quite often asked Major Smith, "What does a kilowatt hour cost you?" "Considering the conditions," Major Smith says, "it is almost impossible to figure, for on the average day all the exhaust steam from the turbines is used, besides a great deal more live steam added to it, in heating the buildings."

Exhaust steam is generally used when the temperature is between 32 degrees and 35 degrees, depending upon the wind velocity. If it goes lower than that, live steam is added to the mains. Major Smith said that for temperatures below zero the electric current becomes a by-product although a valuable one.

TO THE ALUMNI

On February first, nineteen hundred and thirty, THE TECH will begin its fiftieth year as the official undergraduate newspaper of Technology.

We hope that this Alumni Issue, dedicated to you who have gone before us at the Institute, will bring back memories of those bygone days, and will enable you to follow more closely the tremendous strides that the Institute is making.

Some of you who have been interested in this issue, may wish to keep in closer touch with the march of events at Technology. We should be very pleased to add your names to our Alumni mailing list, sending you each issue of our publication, thus giving you a complete account of all the news as soon as it occurs. The subscription price is two dollars and fifty cents per year. Please address the publication at 302 Walker Memorial Building, Cambridge, Massachusetts.

The Tech
Established 1881

SEES NEED FOR NEW GYMNASIUM

By ALLAN W. ROWE '01

The gymnasium problem at Technology is one special to the institution and is influenced by several limitations peculiar to our local conditions. Technology has no large meeting place where a numerically representative group of the alumni can assemble. Commodious as is the Walker Memorial for small gatherings, the Dining Hall can accommodate no more than a fraction of the student body. The Gymnasium therefore must depart from the present convention of a group of small special gymnasia and concentrate upon one large floor. This limitation at once influences the type of building construction and carries certain definite provisions for internal arrangements as natural corollaries.

In the first place it is planned to erect the gymnasium somewhere on the initial lot and as near to the educational building as is feasible. With the exact circumscription of the time of the average Tech student the use of the gymnasium by the undergraduate body will be in direct proportion to its nearness to the class rooms. It should also be within easy striking distance of the present athletic plant.

Assuming that the central portion will be a large open floor space dedicated to the normal purposes of a gymnasium, this central unit is conceived as a room perhaps 300 ft. long and but slightly less in width i.e. perhaps 200 ft. The high roof would be sustained on a series of trusses, leaving the floor space entirely unobstructed by supporting pillars. A system of loose nets which could be raised and lowered at will would divide this floor space into six units each 100x50, and by this delimitation six squads or teams could carry on their practice simultaneously without mutual interference. Such a floor space would offer seating capacity to at least 7,000 individuals, a group exceeding any gathering of alumni and students which the Institute has as yet entertained. The unobstructed floor, further, would permit the erection of temporary seats providing for the accommodation of an adequate number of spectators for any competition which might be carried on there. A stage would probably be erected at one end and a desirable though not essential adjunct would be a large pipe organ.

As the stud of the gymnasium floor would be very high, one end of the gymnasium abutted on this could be a small office building. This would furnish rooms for the Director of the Gymnasium, the undergraduate athletic managements, board room, a trophy room, special rooms for corrective appliances of a therapeutic character, and possibly examining rooms which could be used by the Health Department. While the erection of the Homberg Infirmary has made much more adequate provision for the latter, certain activities of the Health Department could be most suitably housed at this point.

At the other end of the main gymnasium floor a wing or extension could be erected which would contain a large swimming pool. As this latter is contemplated a pool at least 150 ft. long and not less than 75 ft. wide would be erected with a uniform depth of 9 ft. for the first half of the pool and a taper from nine to four and one-half in the second half. Under ordinary conditions a movable wooden barrier would separate the two halves of the pool, leaving the deep end for the competitive swimming group, and the tapered end for those students swimming for recreation. At times of competition the barrier could be raised to the roof and a straight-away course of not less than 50 yds. provided.

On the same level with the pool and forming a semi-basement for the rest of the entire building, would be a huge locker room with capacity for 4,000 students. All of the general bathing facilities would be placed here, service rooms, and storage for chairs which would be necessary when the gymnasium was transformed into an auditorium. Around this central portion and indoors would be built a cinder-path running track, probably with five laps to the mile and including two 100-yd. straight-aways for the use of sprinters and hurdlers. Other provision would be made for such events as pole vaulting and shot putting. The jumpers would probably be provided for on the gymnasium floor.

Needless to say the above plans are wholly tentative as the cost of erection of such a structure would be a large sum. That it would adequately supply the present needs of the student body is patent, and equally it would be adequate to meet normal increases for an appreciable span of years to come. When one considers, however, how rapidly the facilities for student activities in the Walker Memorial building have become wholly inadequate for their initial purposes, it is apparent that wisdom dictates the formulation of a plan permitting of reasonable future expansion.

Medical Facilities For Institute Provided by Gift of Mrs. Homberg

Infirmary, Erected in 1928, Houses Complete Hospital and Clinic

In order to supply the long standing need for adequate medical facilities at the Institute, the Homberg Memorial Infirmary was built in the spring of 1928. As a clinic and hospital for the care of first aid cases, and as a home for the reception of students in ill health, it is unequalled in efficiency and hospitality.

The infirmary opened its doors to the student body in May, 1928, but was not formally dedicated until the following November. Made possible by a gift of $100,000 on the part of Mrs. Richard Homberg in memory of her son, a member of the Class of 1923, the infirmary was designed with several ends in view; the provision of adequate medical facilities for taking care of the annual physical examinations and other sanitary regulations required by the Institute; the provision of a clinic for the care of first aid and cases of minor diseases, not requiring prolonged hospital treatment; and the provision of complete hospital facilities for the care of students having ailments of a serious nature.

The building was made four stories high and was constructed as an extension at the northwest corner of Building No. 3. The interior has none of the cold, bleached formality so commonly associated with hospitals. On the ground floor, the entrance and the attractive foyer are in pleasing contrast to the white walls of the main Institute building. A comfortable and cheery waiting room, clinic rooms, examination booths and the offices of doctors and nurses cover the rest of this floor.

The second and third floors are given over entirely to the hospital and its associated equipment. This includes an operating room, individual rooms for the care of patients, wards, and special isolation rooms for the care of patients having contagious diseases. The equipment also includes an elevator, which permits easy transfer from one floor to another. A solarium occupies the entire area of the fourth floor, where patients may take full advantage of the sun's health giving rays.

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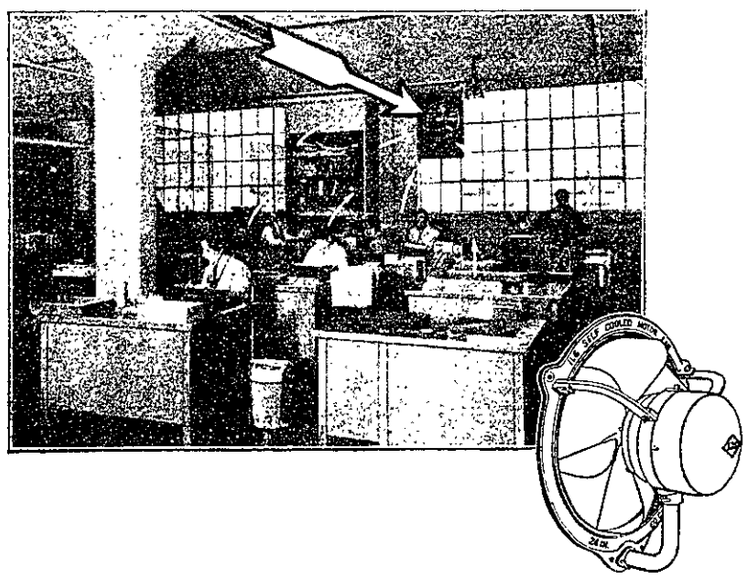

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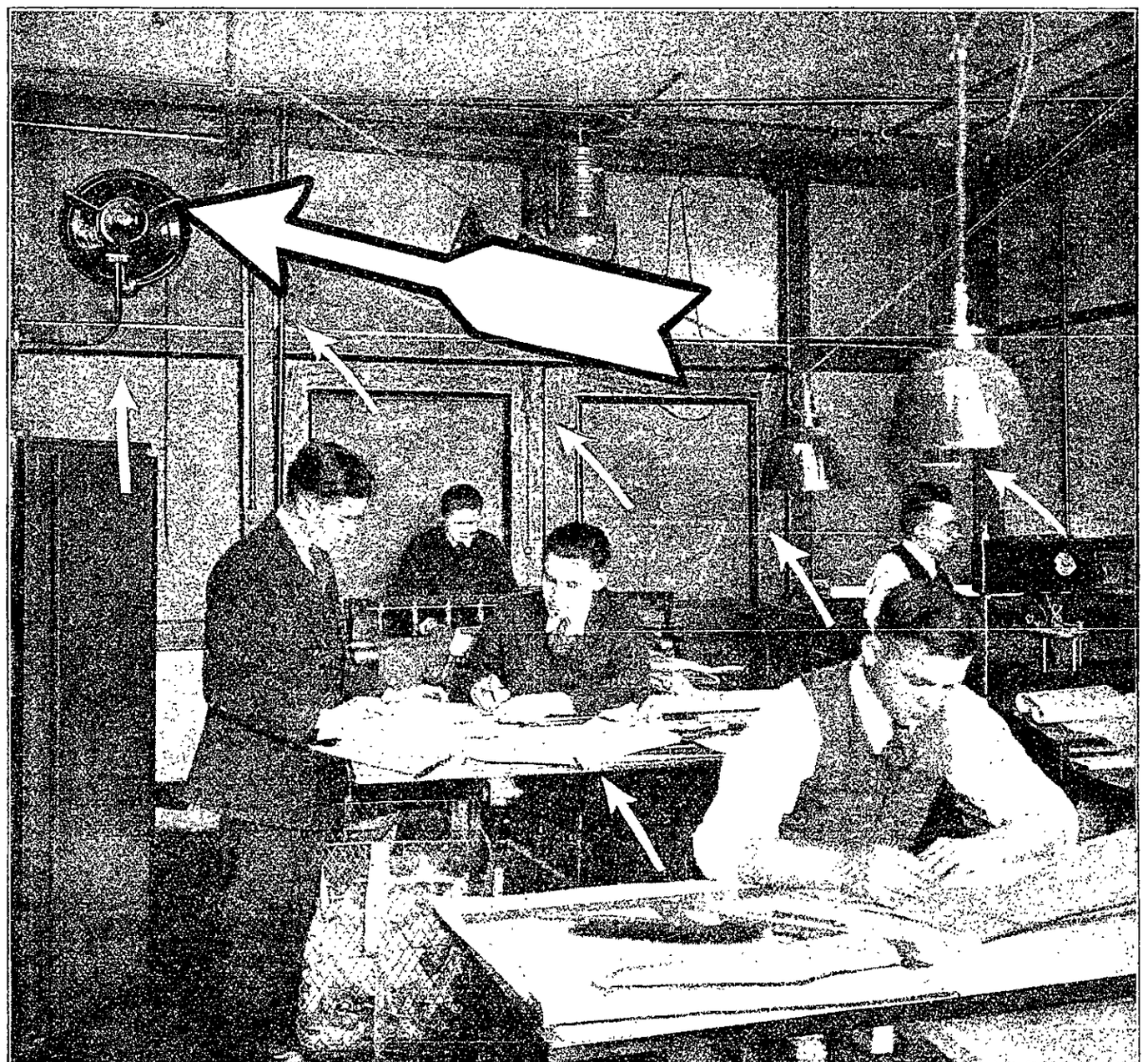

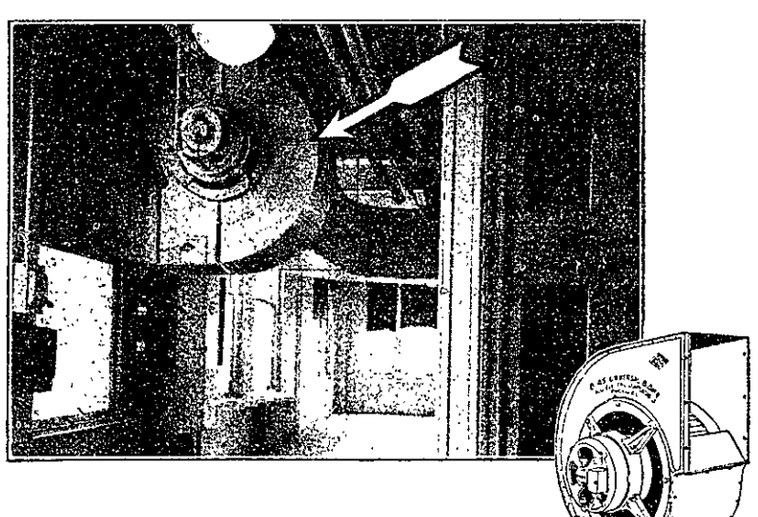

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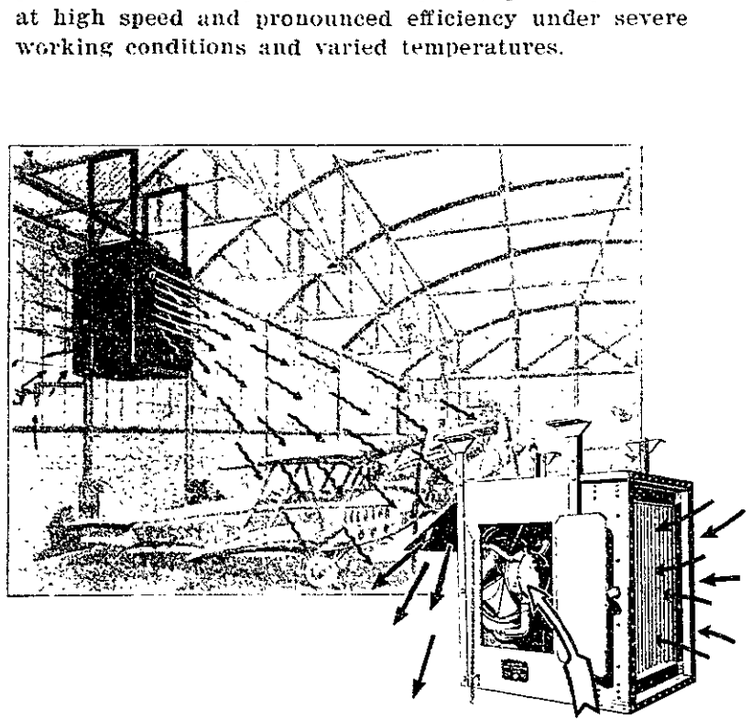

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