

ADVISORY COUNCIL VOTES FOR SPECIAL MANAGERS' INSIGNIA

LACROSSE REFUSED FULL RECOGNITION BUT GIVEN FUNDS

Board Suspends Its Provisional
Recognition of Polo—But
Assumes Debts

FIELD DAY CHANGE MADE

Managers of Technology athletic teams will be awarded a special insignia consisting of regular letter with the addition of a bar below the T according to a ruling made by the Advisory Council when it accepted the report of the M. I. T. A. A. at a meeting last night at the Engineers' Club. The bar will be four inches long by a half inch wide and will be placed a half inch below the T.

Lacrosse Granted Funds

Lacrosse was refused full recognition as the sport is still in its infancy at the Institute. The council granted the team sufficient funds to continue in competition. Since the M. I. T. A. A. refused the polo team full recognition, the council withdrew its provisional recognition and informed the team that it would meet all debts not to exceed \$200. The team members, anticipating such action, have kept their expenses to \$18 and declined to submit a bill.

Point Changes Approved

A recommendation that Field Day points be changed was accepted and the basis next year will be: football 4; crew 3; relay race 3; tug-of-war 2; glove fight 1. The rules were accepted substantially as they appeared in THE TECH, the only radical change being the counting of the gloves as
(Continued on Page 4)

R. A. Cram to Give First of Lectures In Aldred Series

Eminent Architect Will Speak
On 'Building of a Great
Cathedral'

Mr. Ralph Adams Cram, who is generally considered one of the leaders in the field of architecture today, will be the first speaker on this year's Aldred Lecture series. The lecture will be held Friday afternoon at 3 o'clock in Room 10-250.

Mr. Cram's subject, "The Building of a Great Cathedral", is concerned with the design and construction of the Cathedral of St. John, the Divine in New York City, the design of which was supervised by Mr. Cram himself. The speaker is widely known in architectural circles, not only for his work on the cathedral, but also for his supervision of the buildings at Princeton University. He has written many books on subjects related to architecture, and is generally well-regarded as a speaker.

This series of lectures was made possible by the gift of Mr. John E. Aldred, a prominent industrial engineer. During his work in the many fields of industry with which he was associated, Mr. Aldred observed a decided lack of some medium to better enable the engineer to link up his theoretical knowledge as gained at school with some of the practical problems with which he would later come in contact. With a view to creating such a meeting, Mr. Aldred established a series of lectures, intending to have them cover about five years, with five or six lectures every year. In the past a great many men famous in their particular fields of endeavor have spoken to the students of Technology under the auspices of the series, and it is expected that many men of the same calibre will be secured as speakers in the future.

The lecture Friday, as well as the others in the series, will be open to all Seniors, Graduate Students, and members of the instructing staff.

Attend National Convention Held By Fraternities

Dave Q. Wells '30 and Joseph
B. Birdsall '31 Sent
To Conference

Dave Q. Wells '30 and Joseph B. Birdsall '31 represented the Interfraternity Conference of the Institute at a national convention held this past week-end from Nov. 29 to Nov. 30 inclusive in New York City. All the meetings of the convention including a dinner on Friday night were held in the Pennsylvania Hotel.

There were two groups of men represented at the conference. There were graduates representing the different fraternities, and many well known men as speakers, including the former Secretary of Navy, Ray Lyman Wilbur. Also present were more than a hundred deans from the different colleges. The second group of men was composed of representatives from eighty seven different colleges in the country.

The convention began with a first meeting at 9:00 o'clock Friday morning, and continued throughout the day with a short pause for luncheon. The representatives were entertained during the luncheon by the singing of Marietta Walsh of the Metropolitan Opera. Following this, talks were given by the leaders. A dinner was given Friday night and the conference closed after the last session on Saturday morning.

The main purpose of the convention was a discussion of various problems met with by the fraternities at their respective schools. One of the most important topics to come up was methods by which cultural activities could be fostered instead of extra-curricular activities and athletics. Other problems discussed were rules for rushing season, cooperative buying, the increase of power on the campus, and deferred rushing.

NEW T. C. A. CABINET MEMBERS ELECTED

Financial Policy Regulating
Publication Finances
Established

New elections to the T. C. A. Cabinet were made at the weekly meeting last Monday. Tinsley W. Rucker '31 is in charge of freshman Service, which includes freshman camp and upper classman advisory service. Bror Grondal '31 will take charge of Foreign Students; William P. Hall '31 of Blotter Service; Rodney K. Piper of Advisory Board Solicitation; T. Stewart Varey '32 of Deputations; and John Streng '33 of Theatre Service. These officers will serve until April 15th, which is the end of the T. C. A. fiscal year.

An important financial vote concerning the yearly losses resulting from the T. C. A. handbook, and the profits from the blotter distribution was held. Henceforth, any profits from the publications shall be set aside each year as a reserve and contingent fund to cover losses accrued by any other T. C. A. publication, and any balance at the end of the fiscal year may be used at discretion of executive committee.

MASQUE WILL MEET IN WALKER TONIGHT

Masque, honorary society of Tech Show will hold a small dinner meeting in the Faculty Dining Room, Walker Memorial at six thirty, this evening. The dinner will be followed by a short business session and a discussion of the coming show of 1930. Hiram Y. Waterhouse '11 former member of the show, who has assisted in staging it each year, D. L. Rhind Asst. Bursar and member of the Advisory Council, and Ted Bernard ex-showman and member of the advisory council will speak at the gathering.

Exhibitions and Contests Planned For Sports Night

Representatives of Technology's athletic activities will demonstrate before the general public at an annual sports night, which is scheduled to be held on Friday, December 13, at 8 o'clock in Walker Gym. Exhibitions and contests of an athletic nature will be presented, including boxing, wrestling, fencing, and gym.

The gym team will give its usual popular exhibition of stunts on the horizontal and parallel bars, flying rings, horse, and mat. The wrestlers will hold several exhibition matches between members of the team. This will be of particular interest, since it is the first display of Coach Ricks' new system. The boxers have planned a number of bouts which will show the quality of the team at the Institute.

Opens Season

This annual presentation heralds the winter sports season at Technology, and offers a good opportunity for those who are interested in athletics to see the teams in action under one roof. In past years Sports Night has proved instructive as well as entertaining, and there is reason to believe that this year's event will be of the same calibre. The teams that will perform for the visitors are capable of putting on something worthwhile.

The events will start at 8 o'clock on the big floor of Walker Gym. Space has been provided for a large number of spectators in view of the fact that the late arrivals last year were forced to stand. Larger crowds are expected, and it is planned to have adequate room for all.

DISTRIBUTE SENIOR TICKETS NEXT WEEK

Dance Tickets May Be Secured
At Desk in Main Lobby

Tickets for the Senior Dance that will be held on December 13 in the Main Hall of Walker Memorial will be distributed on next Monday, Tuesday, and Wednesday at the Technique desk in the Main Lobby. This dance is open to Seniors only and tickets will be given to them free of charge.

Roy Lamson and his Harvardians will furnish the music for the dancing which will be held from 9 until 1 o'clock. The members of the committee in charge of the affair are John F. Bennett, Robert W. Reynolds, Theodore A. Riehl, and Juel H. Lensch.

Lowell Institute Presents Lectures On "Exploration in Innermost Asia"

Sir Aurel Stein, Author and
Explorer, Will Relate
Adventures

Archaeology is well represented in the Lowell Institute lectures. Two of the most famous men in this field are on the program to deliver lectures in Huntington Hall, Rogers Building—Professor George A. Reisner, the Egyptologist, whose course on latest discoveries of the Harvard University Museum of Fine Arts is half through, and Sir Aurel Stein, fellow of the British Academy, who will give a course of eight illustrated lectures on "Exploration in Innermost Asia" beginning tomorrow night.

The life story of Sir Aurel Stein is one almost of adventure. Having been born in Budapest, he studied at the Vienna and Tubingen Universities, and later in England. While principal of Oriental College, Lahore, and registrar of Punjab University, he was appointed for Indian educational service as principal of the Calcutta Madrasah in 1899. During 1900 he carried out archaeological explorations for the Chinese Turkestan government, and later assumed administrative duties as the Punjab inspector-general of education. In the few years preceding 1910 he was engaged on archaeological and geographical exploration in Central Asia and West China. In 1928 he was awarded the Petrie Medal, and has also been awarded medals by both France and Sweden.

His latest book, "On Alexander's Track of the Indus" published this year, aroused great interest. During Alexander's march to India occurred the striking incident of the siege and capture of the stronghold of the

PRELIMINARY PLANS MADE FOR FIVE-YEAR REUNION NEXT JUNE

Air Corps Flyer
To Address A.E.S.
Smoker Tonight

Dartmouth Students Wish to
Buy Unrepaired Glider from
Managing Board

Captain Joseph L. Stromme of the United States Army Air Corps will speak on Aviation at the monthly smoker of the Aeronautical Engineering Society at 7:30 o'clock tonight in Room 1-190. Capt. Stromme has had a wide and varied career, and he will discuss some of the popular rather than technical phases of the subject.

Dartmouth Wants Glider

The Managing Board received a letter from a group of students from Dartmouth college who are interested in glider work. They wished to purchase the Technology glider from the Aeronautical Engineering Society for use in Hanover. The Managing Board declined to sell the ship since it desires to fly a glider on the Cape this season and it would take too long to build a new ship. However a promise of cooperation was sent together with information as to the problems of glider construction so that the Dartmouth club can consider the advisability of building their own glider.

Members to Vote

The experimental committee report will be read at the meeting. The expense of construction work on the glider this year will be estimated, and the club members will decide whether or not the society should undertake the task of repairing the present ship. According to the experimental committee's calculations, it will cost in the neighborhood of \$75 to get the glider in flying shape.

The Aeronautical Engineering Society is not limited to Course 16 men. Any student who is interested in aviation is eligible to join. Men desiring to become members may sign up at the smoker for \$1.50. Club members who are interested in working on the glider, if it is voted to reconstruct it, will be asked for a schedule of their free hours.

THOMAS C. DESMOND HEADS COMMITTEE FOR 1930 MEETING

Alumni Gathering on June 6
and 7 Will Be Sixth Held
Since 1904

PLAN DINNER ON JUNE 7

Preliminary plans have already been made for an All-Technology reunion to be held next year on June 6 and 7. This will be the sixth of the five-year reunions that were started in 1904 and a large gathering of Technology graduates from all parts of the world is expected.

Thomas C. Desmond '09, nationally known engineer, is chairman of the executive committee appointed by the Alumni Council to take charge of the affair and Prof. 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 appointed to take charge of other phases of the work.

June 6 Registration Day

According to present arrangements, June 6 will be registration day, with a Corporation and President's reception in the afternoon. The actual reunion dinner is planned for Saturday, June 7, with many features which should serve to make this gathering as popular as its predecessors.

Dr. Harry W. Tyler '34, head of the department of Mathematics, was chairman of the committee of class
(Continued on Page 4)

Frederick Libby Addresses Members Of Liberal Club

London Naval Conference and
Its Probable Outcome
Discussed

Bringing out that the trend of the times has been shifting constantly during the past decade toward a policy of world peace, Frederick J. Libby, Secretary of the National Council for Prevention of War, addressed the Liberal Club yesterday afternoon on the coming London Naval Conference.

While it has been impossible for the world powers to agree on a limitation of armies, Mr. Libby pointed out that in the proposed limitation of navies, there will be only five navies of any importance to reduce, those of United States, Great Britain, Japan, France, and Italy.

The modern navy is divided into five departments, the Submarine division, the Destroyer squadron, the Cruisers, the Airplanes, and the Battleships, and in the first four of these divisions the coming conference will be a failure, as far as reduction is concerned, but in the last, the Battleship division the Conference may succeed in effecting a substantial reduction.

Submarines, Great Britain and the United States will be willing to do away with, but France and Japan are positively opposed, with Italy willing to bargain. Hence there will probably be no reduction in this branch of naval armament. The destroyer department in which the United States is by far superior to all other powers, may be reduced, since the United States Navy Department has an excess of destroyers at present. Cruisers, the British will not permit to be reduced and due to the general feeling as to their value the number of cruisers will probably be increased rather than decreased. None of the powers will consent to any reduction in the airplanes forces, which loom as fighting weapons of great potentiality.

In the hope of reducing if not doing away with the no longer useful battleships, and thus reducing by far the naval expenses and personnel, declared the speaker, lie the possibilities in the conference.

Aornos. This great feat was described by Arrian, Curtius and Diodorus, but the site of Aornos could not be located because the Swat Valley, the scene of the operations, has been inaccessible to Europeans.

Swat is now governed by an enlightened ruler, the Mangul Badshah, who welcomed Sir Aurel Stein's visit and helped him in every way. The author speaks very kindly of the fate which had enabled him, during the interval of his forty-one years of Indian service, to carry out explorations over the greater part of Innermost Asia, "but nowhere did they touch ground so replete with historical interest as in that comparatively small area to the west of the Indus towards Alexander's march of conquest illuminates as it were with the light of a meteor."

Sir Stein's lectures are scheduled for Thursday, Saturday and Monday at eight o'clock in the evening, beginning December 5. Each will be illustrated from the collection of thousands of photographs which the lecturer obtained in his many trips. The titles of the course are as follows:

1. Chinese Turkestan and Its Border Regions in Geography and History.
2. Across the Hindukush Range to Khotan and Its Ruined Sites.
3. Discoveries at the Niya Site.
4. An Ancient Archive and the Ruins of Miran.
5. Explorations in the Lop Desert.
6. An Ancient Chinese Border Line.
7. Remains of the Buddhist Art at the Cave-Shrine of the "Thousand Buddhas."
8. From Westermost Kansu to the Pamirs.

A Record of Continuous News Service for 48 Years



Official News Organ of the Undergraduates of M. I. T.

MANAGING BOARD
 D. T. Houston '30.....General Manager
 W. F. Howard '30.....Editor
 C. Connable '30.....Managing Editor
 G. Smith '30.....Business Manager

ASSOCIATE BOARD
 R. Davis '31.....News Editor
 W. N. Currier '31.....Sports Editor
 E. B. Hubbard '31.....Features Editor
 E. S. Worden '31.....Make-up Editor
 G. M. Roddy '31.....Advertising Manager
 H. T. Truax '31 .. Business Service Mgr.
 J. K. Minami '31.....Circulation Manager

EDITORIAL DEPARTMENT
 Editorial Board
 L. Verveer, Jr. '30 W. B. Schneider '31

NEWS AND SPORTS DEPARTMENTS
 Night Editors
 J. W. Bahr '31 M. F. Burr '21
 F. C. Fahnstock '30 E. W. Harmon '30
 S. C. Westerfield '31

News Writers
 A. H. Feibel '32 S. R. Fleming '22
 M. S. Hathaway '32 E. P. Newman '22
 O. W. Burtner '31 E. F. McLaughlin '22

Photographic Staff
 P. H. Bonnet '31 J. P. Elting '31

Sports Writers
 O. C. Chapman '31 P. A. Robert '32

Reporters
 E. L. Clark '32 M. E. McConnell '33
 J. B. Smith '32 R. A. Fuller '22
 H. Kamy '31 G. H. Sistare, Jr. '22

In charge of this issue:

OFFICES OF THE TECH
 Walker Memorial, Cambridge, Mass.
 News and Editorial—Room 3, Walker,
 Telephone Univ. 7029
 Business—Room 302, Walker,
 Telephone Univ. 7415

Printer's Telephone—HANcock 8387 - 88

SUBSCRIPTION PRICE, \$2.50 PER YR.

Published every Monday, Wednesday and Friday during the College year except during College vacations
 Entered as Second Class Matter at the Boston Post Office
 Member Eastern Intercollegiate Newspaper Association

BUSINESS DEPARTMENT
 Business Service Department

Staff
 W. Holst '32 H. Swachman '32
 Joseph Valverde, Jr. '32

Circulation Department Staff
 L. Cianciolo '32 J. J. Winkler '32
 W. M. Moore '32 W. B. Pierce '32
 E. D. McLeod '32

Advertising Department
 Assistant Advertising Managers
 R. H. Haberstroh '31

Staff

L. C. Bond '32 W. H. Barker '32
 C. E. McCormack '32 A. Jewell '32
 W. B. Simonds '32 E. F. Moran '32
 M. D. Triouleyre '32 A. S. Ellis '32
 T. E. Sears, Jr. '32

P. A. Robert, '32

AVIATION ON TERRA FIRMA

WITH the recent increase in popularity of the course in Aeronautical Engineering there have developed difficult problems, both to the men studying in this branch of engineering and the faculty in charge of the course. For the men the question is: In what shall I specialize in this vast field, and what shall I do with my knowledge once I have graduated? For the instructing staff the question is: What and how shall we teach these students, that they may best develop their latent abilities and find themselves a worth-while place after leaving the Institute?

Answers to these questions are given by Guy W. Vaughan, vice-president and general manager of the Wright Aeronautical Corporation, in an article in column four of this page. His ideas on the situation are comprehensive and concise, and we have printed his message almost verbatim.

The treatment accorded their new employees by the Wright Company is an effective antidote for a common ailment among young men interested in aviation. They regard it as a sport, and they enjoy it for the thrills they receive from it. The famous airplane corporation puts its new men to work for three months in the shops, where they spend eight hours or more each day grinding valves. This is to test their pertinacity—if they survive these months, they have proved the sincerity of their desires.

No actual drudgery is imposed on the younger students in Course XVI, although this plan might be very worthy of trial. Nevertheless the men must perform certain hard scholastic labors before they are admitted to the higher planes of their profession. There they may choose in which phase they will specialize.

This is another point stressed by Mr. Vaughan. "Decide", he says, "as quickly as possible what phase of the industry is interesting to you." The common term, "the aviation industry", is indeed a misnomer. It is a term wider in its scope than "medicine" and almost as broad as "engineering". This is the age of specialization. The man who has an indefatigable understanding of a particular phase of an industry, and with this a general knowledge of the whole, is the alumnus to whom posterity will point with pride.

Many men are entering the aeronautical engineering course merely because it is a newly opened field. From this group may come successes. But do not enter aviation and its allied fields merely for the thrill you expect. It is a serious business, requiring master minds, and there will be much hard work in the beginning.

One of Mr. Vaughan's statements requires a word of warning. If you must learn to fly to complete your qualifications, learn during the summer vacations. A number of sadder but wiser students will bear witness to the fact that flying and studying at Technology mix with a violent reaction—the inevitable dismissal of the student from the Institute is almost assured.

A MUSICAL PRIVILEGE

OF all the reactions peculiar to animals, man included, one of the most potent and least understood is that of music. The world has always had music and no one can truly state the effect it has had upon the development of civilization. Nordic history tells of the Norsemen singing in their diminutive craft in the midst of tempests. And to this day, according to Konrad Bercovici, when one of a gypsy tribe becomes sick, instead of any doctoring, they sing, play, and dance for him, because in their reasoning a sick man is an unhappy man.

Their method has proved efficacious. Such capable minds as those of Edison, De Forest, Marconi, have been directed toward making it possible for the Vermont farmer to wear overalls to a performance at the Trocadero. These inventors realized man's need of harmony and rhythm and large phonograph and radio companies have enriched themselves and their world-wide clientele.

Albeit there are but three universal languages and these three are standard equipment—everyone understands laughing, crying and music. Technology is indeed fortunate in being able to hear Mr. Arthur Whiting in his series of fine concerts. Technology men have in the past years greatly enjoyed Mr. Whiting and his assistant artists. The second concert of the series will be January 7th.

As We See the Movies

THE METROPOLITAN

With a good feature, good music and a fine stage show, this week's performance at the Met is well worth seeing. The picture is "Half Way to Heaven", starring Buddy Rogers and Jean Arthur, assisted by an able cast.

The story concerns a beautiful acrobat, "Greta Nelson," and who as member of a troupe finds odious the jealous attentions of her partner. When "Ned Lee" (Buddy Rogers) joins the performers after the suspicious death of one of "Greta's" admirers, "Nick's" hate for the young man endangers his life. Hair-raising thrills follow, and a convincing fight precedes the final fade-out.

The photography in the picture is unusual. Some very fine acrobatics have been screened, and excitement and suspense fill the story. Throughout "Half Way to Heaven" one sees excellent acting. Besides the stars, whose characterizations are uniformly good, Paul Lukas, playing the jealous lover to perfection, contributes a good deal to the success of the picture.

The best stage show for some time is "Match Box Revue". Ingenious sets produce unique effects in the colorful production. Al Mitchell and his Band are featured, assisted by a fine collection of vaudeville talent. Morriarty and Burn execute intricate dance steps, the Foster Girls present a number of pleasing chorus numbers, another act, Gordon and his dogs, is well done, and the Giersdorf Sisters harmonize delightfully.

As We Like It

"THE MERCHANT OF VENICE" THE REPERTORY

With "The Merchant of Venice" the Repertory concludes its Shakespearean attempts for the present at least. Lark Taylor's finely done portrayal of Shylock is perhaps the outstanding feature of this production which is in its last week at the Repertory.

Portia was played with some grace by Cynthia Latham and Bassanio, a bit too strenuously by Allen Nourse. Howard Kyle as Antonia was not particularly inspiring. The real high lights of the production seemed to come, with exception of Shylock, from some of the work done by those in minor parts. Of these the portrayal of Launcelot Gobbo by Lois Buell was entertainment of a rare variety.

One of novelties of this production consisted of working in several dances which served to liven up the piece. This fourth Shakespearean production of the season is, unfortunately, not representative of the best work of which the Repertory is capable. Their next production is to Boucualt's comedy "London Assurance".

A Korean student at Southern Methodist University last June received his B.A., M.A., and Ph.D. degrees all at the same commencement.



We don't make hats, but prefer to make hats to fit heads.

For that reason you'll find a big variety of sizes in our hat stocks — they include 6 5-8 and 8 1/4—round and long ovals to fit extra wide or long heads.

We wouldn't go to all that trouble if we weren't sure the hats were worth it.

Soft felts and derbies start at \$5;

Stetson's from \$8.50;

Our own Tiptoppers* and Solights*, \$10.

*Reg. U. S. Pat. Off.

ROGERS PEET COMPANY
 formerly
 Macullar Parker Company
 Tremont Street at Bromfield

Wright Corporation Official Gives Advice to Aeronautical Students

Guy W. Vaughan Says Average Student Lacks Sufficient Specialization

How to make the best use of the intelligent and enthusiastic man power that is pouring from the colleges of the country has proved to be one of the real problems of the aviation industry. Hundreds of students looking forward to graduation and their emergence into the world of commerce, have caught the fever of this fresh and swiftly growing business of flying, and have made up their minds to join their fortunes with it. On the other hand, aviation has a tremendous need for eager, trained, and youthful minds to take up its multitude of tasks.

Among the aviation executives who have given most thought to this problem is Guy W. Vaughan, vice president and general manager of the Wright Aeronautical Corporation. A very large number of young college men have come to Vaughan for jobs or advice, and college presidents have frequently inquired of him what to do with their young charges eager to get into aviation. To these he has outlined a general primer of the industry as it applies to the collegiate in search of a job.

"Aviation" Too Comprehensive

"It is, first of all," says Vaughan, "something of a mistake to regard aviation as one industry, a coherent whole. The industry is in fact a group of many industries which are worlds apart in all except their ultimate aim; to make and sell airplanes, to operate them, and to keep them in the air."

"Suppose we simply list these various sub-industries, to make clear how very different they are: In the aviation business we (1) design, and manufacture, and sell engines; (2) design, and manufacture, and sell airplanes; (3) operate airplanes at a fixed base for training or for local taxi service; (4) operate airplanes over scheduled routes carrying mail and passengers; (5) operate commercial airports; (6) fly airplanes as professional pilots; (7) manufacture and sell carburetors or pontoon floats or spruce lumber or linen fabric or any of the hundreds of aeronautical accessories; (8) teach students to fly, in large scale operation.

Candidate Should Specialize

"There are, of course, more subdivisions of the industry. But these will serve to demonstrate my first point: that the student should make up his

mind as quickly as possible which phase interests him, and train himself especially for that phase. He should not allow himself simply to drift 'into the aviation business'. For in that case we may find a graduate mechanical engineer operating a mail route when he should be designing engines, or a first class sales department executive inspecting lumber out of a spruce forest.

All Start in Machine Shop

"There are men who come to the Wright Company with excellent specialized educations, from the best colleges in the country. Our practice with them is almost identical in every case. Whether a newcomer is a graduate of engineering, or business administration, or accounting, we usually put him in a pair of overalls in the service shop and let him spend three or four months grindings valves. That is a tedious and uninteresting job. It is a greasy job, with long hours and monotonous labor. But we serve two purposes with this method: we find out if our candidate has the backbone essential to this business, and we teach him what the inside of an engine looks like. A college man that can grind valves eight hours every day for three months with plenty of overtime has plenty of grit.

Should Learn to Fly

"I would advise nearly all men entering the aviation business to get familiar with the stick of an airplane. A few hours of flying teaches things that precepts can never teach.

"Summing up my advice to college men interested in this business, I say this: Decide, as quickly as possible, what phase of the industry is interesting to you. Learn everything about that phase which can be learned from books or from men experienced in it. And finally, do not scorn a start in some very lowly job. For that, after all, is the best and surest way to learn, and to avoid those later mistakes which come to every man, no matter how intelligent he may be, who has not actual working experience to back him up."

At Washington and Lee they call them cold checks instead of hot checks, and any student who passes three of them is dismissed from the university. The cold check committee has been forced to meet three times a week lately besides its regular executive meeting to take care of the great flood of bad checks.



NOW ON!

CASH CLEARANCE

SALE

GREAT SAVINGS

Overcoats

FORMERLY \$65 **\$51.50**
 FORMERLY \$75 **\$57.50**
CHESTERFIELDS
 FORMERLY \$75 **\$61.50**
 FORMERLY \$85 **\$67.50**

SUITS

FORMERLY \$55 **\$42.50**
 FORMERLY \$65 **\$47.50**
 FORMERLY \$70 **\$51.50**
 FORMERLY \$75 **\$57.50**

LANGROCK

HARVARD SQUARE
 1436 MASS. AVE. CAMBRIDGE
 Stores: Yale, Harvard, Princeton, Williams, Brown, Exeter,
 Andover, Lawrenceville, N. Y. City—184 Broadway

VARSITY ENTERS TWO RELAY TEAMS IN WINTER MEETS

Five Meets are Arranged As a Tentative Program for Indoor Season

FIRST MEET JANUARY 25

Cross Country Runners Report For One and Two-Mile Relay Teams

With the finish of the cross country season, the Technology track team starts its training for the winter indoor season that will open on January 25th with the Knights of Columbus meet in Boston. Five Varsity meets are on the tentative schedule prepared by the managers, three of which will be held in Boston. Practice on the board track at the rear of the squash courts has already commenced and will continue throughout the winter.

For the indoor sprint events this year the Varsity will have a number of men who composed the outdoor team last spring to pick from. Foremost among these men are Jandris, Broder, Ayers, and Lynch. They have all had experience on the board tracks before and have gone through one or more seasons under the tutelage of Head Coach Oscar Hedlund.

Two Relay Teams to Run

This year, contrary to the policy followed last year, the Varsity will enter two separate relay teams in the indoor meets. Both the one-mile and the two-mile events will be run. This is made possible this year by the number of relay men who have reported for practice.

Reporting for the one mile relay are Captain Fred Ladd, Berry, Mulliken, Earle, Lappin, Jewett, and Hall. All of these men are in their second and third year on the board tracks and should build up a fast team. Mulliken, Jewett, and Hall were members of the Sophomore Field Day relay team while Berry comes from the Varsity cross-country team.

Cross-Country Men Report

In the two-mile relay there are a number of men who have just completed running for the Varsity in the cross-country season. Thorsen, Gilman, Herberts, Baltzer, Allbright, Leadbetter, and Gonzalez are among the best of the men reporting for this event.

Although the Varsity will put two relay teams on the field this year, the freshmen will continue as last year and only have one team. They will run in the one mile relay event. Among the best out for positions on the team are Crane, Putnam, Hammond, Greer, Ellis, and Rubin. In the sprints the most likely candidates include Kinraide, Kreuscamp, Peck and Prescott.

Field Events Team is Strong

For the field events the same names stand out for the Varsity that stood out a year ago. In the Shot Put Grondal and Dahl-Hansen are the best for the Varsity while Burley and McAleer have shown the best work for the freshmen. Cree, Danforth, Hazeltine, and Snow have been doing excellent work among the Varsity Pole vaulters, while Morse and Pierce stand out among the freshmen.

Zigler and Sullivan are the Varsity's best in both the broad jump and the high jump. Phil Benjamin, Technology's star high jumper of a year ago, will also join the team in time for the winter season in January. Coon, Pierce, and Butkis have shown up the best among the freshman high jumpers while Kinraide and Kreuscamp are doing the best work for 1933 in the broad jump.

The following tentative schedule has been drawn up for the Varsity:

- Jan. 25. Knights of Columbus Meet at Boston
- Feb. 8. Milrose A.A. Games at New York
- Feb. 15. Boston A.A. Games at Boston
- Mar. 1. I. C. A. A. A. Championships at New York
- Mar. 1. Indoor Interclass Meet at Tech Field

HARVARD PROFESSOR TO ADDRESS FACULTY

Professor A. E. Kennelly, Sc. D., will be the speaker at the luncheon meeting of the Faculty Club which will be held at noon today in the Faculty Dining Room of Walker.

Doctor Kennelly is Professor of Electrical Engineering and Director of Electrical Engineering Research at Harvard at the present time. He was born in India, educated in Scotland and England, and has had a varied and interesting career. He was at one time principal electrical assistant to Thomas A. Edison, and has been honored by many universities, receiving a large number of honors and awards. Dr. Kennelly's topic at today's meeting will be "World's Records of Racing."

Student Branch Will Hold Third Dinner Tomorrow

Mr. E. S. Mansfield to Speak On Distribution of Electric Power

Members of the M. I. T. Student Branch of the A. I. E. E. and all freshmen and Sophomores enrolled in electrical courses will meet for the third dinner of the term, to be held tomorrow evening at 6 o'clock in the North Hall of Walker.

Mr. E. S. Mansfield, '96, of the Edison Electric Illuminating Company of Boston, will be the speaker of the evening. Mr. Mansfield will address the assemblage on the subject of the opportunities offered the engineering graduate in the field of the generation and distribution of electric power. A motion picture, illustrating a number of typical projects in the work of supplying electric light and power, will conclude the program.

All students who plan to attend the meeting must secure cards of admission, either from some member of the executive committee or in Room 4-203 any time today.

MUSICAL CLUBS TO GIVE XMAS CONCERT

Annual Concert and Dance To Be Held in Brookline Friday Evening

In conclusion to the pre-Christmas season, the Combined Musical Clubs will present their annual Christmas Concert and Dance on Friday evening at Longwood Towers in Brookline.

This dance, which has always proved to be one of the big events of the Winter season, is the culmination of the work of the Clubs for the first part of the year. It will also be the first undergraduate concert so far this semester.

The evening's program will commence at 8:30 o'clock with the concert, which will last an hour and a half. Dancing will follow, and will continue until 2 o'clock. Refreshments will be served in the Main Dining Room during the intermission.

During the concert, each of the clubs will render several selections, and a specialty act will be included. The Technicians will appear once on the concert program, and will supply the music for the dance later in the evening.

Tickets, priced at \$4 a couple and \$3 stag, have been on sale all week in the Main Lobby from 12 until 2 o'clock, and may also be obtained at the Musical Clubs office.

Matrons at the dance will be Mrs. Robert P. Bigelow, Mrs. William T. Hall, and Mrs. James R. Jack.

CATHOLICS TO HOLD COMMUNION FEAST

To Have Breakfast at Lenox After Attending Mass

The Catholic students of the Institute will gather for the first Communion Breakfast, sponsored by the Tech Catholic club this year, next Sunday morning. The men will meet at the Cathedral of the Holy Cross where they will attend the 9 o'clock mass and receive Holy Communion. After Mass they will go to the Hotel Lenox where breakfast will be served for the club at 10:30 o'clock. Subscriptions are \$1.00, to be paid on Sunday morning, and all Catholics at the Institute are earnestly urged to avail themselves of this opportunity to receive Holy Communion with their classmates.

LOST

Brown leather brief case containing material on air conditioning, taken from Central Library on Wednesday last. Property of B. F. Sturtevant Co. Please return or supply information to Professor Seaver, Central Library.

CROSTON & CARR CO. Clothiers, 72 Summer St.



BETTER QUALITY TO RENT

Now FUXEDOS

\$1.50

AND ONE PRICE

Complete Outfitters

BASKETBALL RULES TO BE EXPLAINED HERE NEXT FRIDAY

Two Technology basketball teams will meet Friday night at 8 o'clock in the Hangar Gym in the annual demonstration game held by the Officials Association of New England. The rules to govern all New England teams playing under the Association's code will be discussed at the meeting. All infractions made during the game will be explained to the audience and the penalty named. The name of the referee who will explain the rules has been withheld by the officials.

Formerly at Harvard

Harvard's Hemenway Gymnasium, which has formerly been the meeting place of the officials, had been previously engaged for a fencing meet, and the Haugar Gym was decided upon on the invitation of Coach McCarthy. The lineups of the teams will that will go on the floor in the demonstration game are as follows: Bates, forward; Dickinson, guard; Johnson, center; Stockwell, forward; Castleman, forward; Paul, guard; Boling, guard. The lineup of the yearling five to play against the above team is as follows: Feustel, forward; Jewell, center; Dame, forward; Parnum, guard; Brockleman, guard; Woodbury, guard; Haas, guard.

Last Year's Freshmen

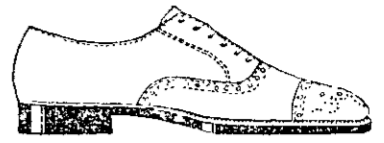
Johnson, Stockwell, Castleman, and Paul, were members of the freshman team of last year, and are now playing regularly on the Varsity squad. Brockleman, who will play on the freshman team, is a brother of the famous basketball captain of last year's victorious quintet. Haas, guard on the same team, who has played on the yearling soccer team in its fall

schedule, is also expected to see some action in the game Friday night.

First Game Saturday
On Saturday, the Varsity basketball team will play its first game this season against New Bedford Textile School. Neither team has had a game this year, but the Engineers are expected to win by an easy margin, due to the past record of the games with New Bedford. With four veterans of last year playing, the Beavers should pile up a large score against their opponents. Although the lineup has not been announced the following will undoubtedly see some action in the first game of the season: MacDowell, center; Nelson, forward; Dickinson, forward; Bates, guard; Paul, guard; Lawson guard; Johnson, center; Nee, forward; Motter, guard. The game will start at 8 o'clock in the Hangar, admission being free. Members of the dorm cheering section that followed the team last year are urged to be present to start the team on another successful season.

FRANK BROTHERS

Fifth Avenue Boot Shop
Between 47th and 48th Streets, New York



CAMBRIDGE SHOP

252 Abbott Bldg., Harvard Square

SIMPLEX

WIRES and CABLES

INSULATED WITH RUBBER

PAPER OR VARNISHED

CAMBRIC

SIMPLEX WIRE & CABLE CO

Manufacturers

201 DEVONSHIRE ST., BOSTON

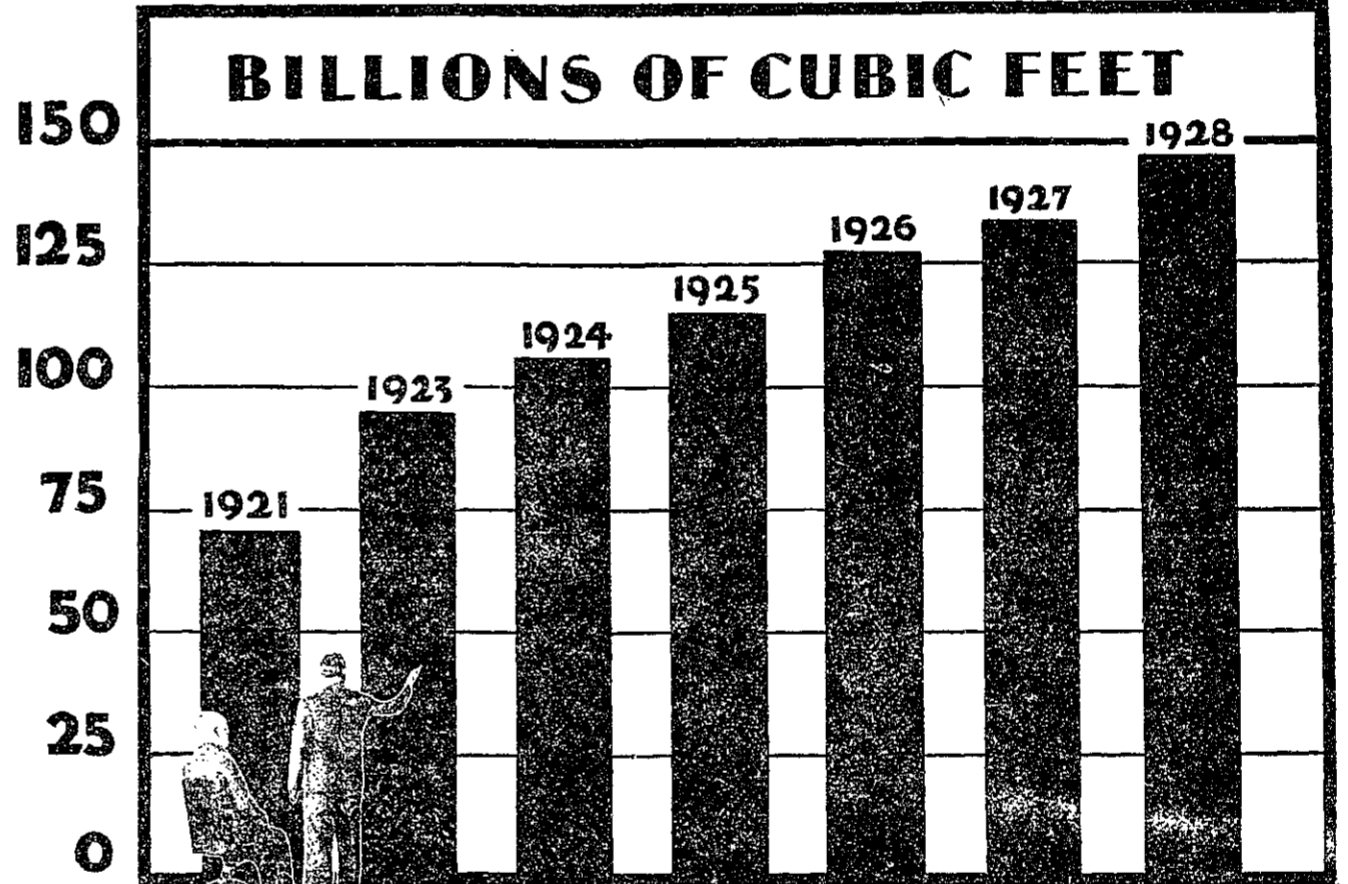
BRANCH OFFICES

CHICAGO SAN FRANCISCO

NEW YORK CLEVELAND

JACKSONVILLE

IF IT'S DONE WITH HEAT, YOU CAN DO IT BETTER WITH GAS



Sales of manufactured gas in the United States for industrial and commercial purposes from 1921 to 1928, inclusive. Note that the actual volume has increased more than 100%. Wherever heat is needed, gas heat is better.

Each year Industrial Gas Heat gains in popularity

BACK in 1921, seventy-odd billions of cubic feet of manufactured gas met Industry's needs. Those were the days when Industry was just learning "if it's done with heat, you can do it better with gas."

Last year Industry used a hundred and forty-seven billion cubic feet. Something more than double 1921's record!

This gain wasn't philanthropy. Industry is hard boiled. Gas heat produces!

Today there are innumerable uses for gas heat in industry. From bread-bak-

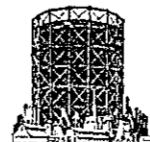
ing to heat-treating steel; from glass-blowing to pottery firing. And new uses are being developed every day.

Gas heat is economical; profitable. It is flexible; capable of accurate control and accurate regulation. Above all, it is dependable, not subject to break-down or interruptions. Whatever the heating problem, gas heat gives the most for every fuel dollar.

There is a book, "Industrial Gas Heat," which tells about gas in industry. You will find it interesting and instructive. A postal card brings it. Address

A M E R I C A N G A S A S S O C I A T I O N

420 Lexington Avenue, New York



NOTICES - ANNOUNCEMENTS

Of General Interest

Aldred Lecture **Mr. Ralph Adams Cram**
Friday, December 6, 3 P. M., Room 10-250

Mr. Ralph Adams Cram, Architect and Author, will be the speaker for the first lecture in the Aldred Series. The subject of the lecture will be "The Building of a Great Cathedral."
 The lecture is open to seniors, graduate students and members of the instructing staff.

Washington Plan
Our National Capitol, Past, Present and Future
Monday, December 9, 4:30 P. M., Rogers Building,
491 Boylston Street, Boston

A film entitled the "Washington Plan" will be exhibited. Professor R. E. Rogers will read selections from the speeches of Secretary Mellon and President Hoover in connection with the showing of the film.
 Open to students and members of the instructing staff
 Tickets may be procured at the Information Office, Room 10-100.

CALENDAR

- Wednesday, December 4**
 3:30—Rehearsal Tech Show Cast, Walker Gym
 5:00—Techonians Rehearsal, North Hall, Walker
 8:00—Menorah Society Dance, North Hall, Walker
- Thursday, December 5**
 6:00—A. I. E. E. Dinner Meeting, North Hall, Walker
 6:30—Reunion of Class of 1920
 7:30—Tech Show Chorus Rehearsal, Walker Gym
- Friday, December 6**
 3:00—Aldred Lecture, Room 10-250
 5:00—Meeting of Photographic Society, Room 5-130
 6:00—Chinese Electrical Engineering Society Meeting, Faculty Dining Room, Walker
 8:00—Musical Club Concert and Dance, Longwood Towers
- Saturday, December 7**
 6:00—Boston Boat Club Supper Meeting, Faculty Dining Room, Walker
 6:00—Chinese Chemical Engineering Society Meeting, North Hall, Walker
 7:30—Tech-New Bedford Basketball Game, Hangar Gym
- Sunday, December 8**
 6:00—Alpha Kappa Pi Meeting, Grill Room, Walker
- Tuesday, December 10**
 6:00—A. I. E. E. Dinner Meeting, North Hall, Walker
 6:00—Tech Boat Club Dinner, Grill Room, Walker
 7:30—Tech Chorus Rehearsal, Walker Gym
- Wednesday, December 11**
 6:00—Civil Engineering Society Dinner, North Hall, Walker

ALUMNI GATHERING

PLANNED FOR 1930

Traditional Five-year Reunions
Have Continued Since
Start in 1904

(Continued from Page 1)
 secretaries that made the necessary plans for the first of these reunions that was held in 1904. This gathering was an outgrowth of a suggestion made by the Class of 1893 and did much toward making the five-year reunion a tradition at Technology.

In 1909, the reunion was held in connection with the inauguration of Dr. Richard C. Maclaurin as president of the Institute. The third gathering was planned for 1914 but due to the fact that war was impending in Europe the arrangements were postponed.

No reunions were held for two years when in 1916 Technology's golden jubilee was celebrated with the opening of the buildings on the north side of the Charles River. This affair was marked by a great pageant, symbolic of the march of progress and the passing of the Institute from its old buildings on Boylston street.

Banquet Sets New Record
 In 1920, the Five-Year Reunion drew nation-wide attention because of a demonstration, during the dinner, of the first national long distance telephone hookup. This network carried the voices of the speakers to thirty-four cities, stretched from the Atlantic to the Pacific, where groups of alumni, who were unable to attend in person, listened to the ceremonies.

The reunion of 1925 is noted for its jamboree dinner, the attendance at which was so large, that a new record for such an event in Boston was made. One of the most unique features of this banquet was that there were no speeches.

LIST OF WANDERING GREEKS IS COMPILED

Technique requests that all fraternity men who have transferred from other Colleges and whose fraternity has no chapter at the Institute sign a little booklet that has been placed in the Main Lobby. All such men are urged to sign this booklet at their earliest convenience in order that compilation of such data may be rushed this year.

All Seniors who have not their picture taken for the Senior Portfolio must do so right away since no pictures will be taken after Christmas.

FRENCH VILLAGE
 with New Natural Air Cooling System
 —a delightful spot to Dine and Dance
 Noon Lunch special, 85c—with music and dancing.
HOTEL WESTMINSTER
 Music by Billy Dooley and his Village Artists.

Albie Booth is not Yale's smallest star. The present sensation weighs 144. Wurtenburg, quarter in 1899, weighed only 130.

Travel Money

For Your Trips



Harvard Trust
 Letters of Credit
 Traveler's Cheques
 or Foreign Drafts

Harvard Trust Company

New TUXEDOS
 FOR HIRE \$1.50 AND UP
READ & WHITE
 111 Summer St., BOSTON 93 Mass Ave.
 Woolworth Bldg., Providence, R. I.
 TUXEDOS / FULL DRESS / CUTAWAYS / SHIRTS / ETC.

UNDERGRADUATE

BOYS' WORK

Mr. Duncan Russell, general director of Community service, will be present at the T. C. A. office Thursday from 11-12, and next Monday from 1-2. All men wishing to learn more particulars concerning boys' work should call during those hours.

CONGREGATIONAL CHURCH SUPPER

Technology men are invited to attend a supper in the rooms of the Prospect street Congregational Church next Friday at 6:30 o'clock. The price is 50 cents and a real home cooked meal is promised.

Technique

Technique wishes to announce that positions for freshman competitors are still open. Any freshman who is not yet active in an undergraduate activity is urged to attend the Technique meeting next Monday at 5 o'clock.

Photographic Club

The next meeting of the Technology Photographic club will be held next Friday afternoon in Room 5-130 at 5 o'clock. Students interested in photography are invited to attend this meeting.

Tech Show Chorus

The members of the Tech Show Chorus are asked to report for rehearsal in Walker Gym tomorrow at 7:30 o'clock.

Tech Show Cast

There will be a rehearsal of the Tech Show cast in Walker Gym today at 3:30 o'clock.

Strange things must happen up in Minnesota. The Minnesota Daily says: "Mercury Speeds Upward as icy Wind Hits Campus" Maybe it snows in July up there too, and maybe Santa Claus comes at Easter.

ATHLETIC INSIGNIA AWARDED BY COUNCIL

Soccer and Cross Country Men
Are Granted Letters

(Continued from page 1)
 they are deposited in the barrel and only finger pieces count.

Letter Awards Made

The straight T was awarded to: Leon S. Thorsen, '30, and Donald B. Gilman '32, for cross country; J. Nelson Cooper '30, and Edgard M. Hawkins, '30, for soccer. The insignia cTc was granted Thorsen, Gilman, Richard K. Baltzer '31, Donald I. McSheehy Unc., Richard L. Berry '30, and a discretionary cTc to John T. McNiff '31.

Varsity soccer insignia was given: John P. Serralach '32, J. Nelson Cooper '30, Eric P. Newman '32, Theodore A. Riehl '30, George F. Wyman '30, Malio G. Fragiacomio '32, Edgar M. Hawkins '30, Samuel G. Ryan '31, Sukshon Kashemsanta '31, Norman D. Schultze '32, Nicolas G. Velez '32, Wichian Vibulayamonkal '31, Robert B. Axford '32, Gilbert B. Ayres '31, and the discretionary award to Ronald L. Youngston '30.

The women on the campus of the University of Illinois criticized the dress of the men, so the accused sex soon adopted the slogan "We pay for shows—that's why we wear these clothes." When the co-eds refused to retract the charges, the campus next day saw all the male students garbed in overalls.

John B. Fulton, alumni secretary and editor of the Ohio State University Monthly, made a statement recently to the effect that he favored the policy of athletes capitalizing on their athletic ability.

Rules laid down by the Sophs at the University of Pennsylvania require that all first-year girls must constantly have at least three nickels on hand (or in pocket) to pay fines for breaking freshmen rules.



Telephony knows no barriers

Telephone lines must cross natural barriers. This means construction methods must be flexible, readily varied to peculiar local conditions.

Special problems arise, too, in telephone laboratory, factory and central office. How to protect poles from insect attack? How

to develop more compact equipment for use in manholes? How to assure a sufficient number of trained operators? How to build long distance business?

It takes resourcefulness to find the answers, to surmount the barriers. There is no stereotyped way.

BELL SYSTEM

A nation-wide system of inter-connecting telephones



"OUR PIONEERING WORK HAS JUST BEGUN"

THE GARAGE FOR TECH MEN

The only garage which offers complete
REPAIR — TIRE — OILING — BATTERY SERVICE
 with **MOTORCYCLE DELIVERY SERVICE**
 at **THE LOWEST RATES**

Street Level Only—No Elevators or Ramps

MAIN ST. GARAGE, INC.

600 Main St.—Near Kendall Sq.

H. W. B. POWERS, Manager

Uni. 4979