



## TO HAVE SUNDAY USE OF INSTITUTE ATHLETIC GROUNDS

### Advisory Council Strongly Favors Opening Tennis Courts To Users on Sunday

## LEVIS GIVEN STRAIGHT "T"

### Varsity Fencing Captain Honored For Exceptional Work With Foil This Year

Institute men will enjoy the use of the athletic equipment if the motion adopted by the Advisory Council on Athletics at their regular monthly meeting at the Engineer's Club last night, is approved by the Institute authorities. The council went on record as strongly in favor of the opening of the tennis courts and other such facilities to Sunday use, a condition long desirable to the men residing in the near vicinity of Technology. Captain Joe Levis of the Varsity fencing team was awarded a straight "T" for his exceptional work in the foils during the season, capped by his taking second in the Eastern Intercollegiate.

At the last meeting of the Corporation A. F. Bemis '93 and H. J. Carlson '92 presented a report on Sunday use of the Institute property for sports that presented all phases of the matter in favor of such use. In order to get the undergraduate point view on this matter, Dr. A. W. Rowe '01 drew up a motion to the effect that students be allowed to use the athletic facilities of the Institute on Sundays.

There is at present no ruling against this practice but heretofore there has been a strong feeling against the proposition. It would mean that the Institute would have to provide for caretakers on Sunday but aside from this fact the Council could find no other

(Continued on Page 3)

## DR. SOSMAN DESCRIBES EARTH'S TEMPERATURE

Dr. Robert Sosman spoke on "The Earth's Temperature," yesterday in the fourth of his series of ten earth lectures and Dr. Sosman described the perature conditions of the earth from its first stages up to the present time.

The actual temperature is only known to 24 kilometers, or about to only 4 percent of the earth's depth, so little can be positively said about the interior temperatures. However, due to the high pressure it is improbable that the interior is a liquid, though the temperature may be very high.

Radioactive materials probably contribute largely to the interior temperature and Dr. Sosman described the methods by which a number of temperature curves plotted against depth may be derived by considering this fact. Radioactivity and oxidation of sulphides also explain the variations in surface temperatures at volcanoes and hot springs. This much is now known about the earth's interior temperature in spite of the absence of actual data.

## Prominent Alumni Offer Opposing Opinions of Merits of New Prize Song

Widely different opinions have been expressed by the Alumni on the advisability of the motion passed by the Institute Committee to substitute "The Courts of M.I.T." for "The Stein Song" as Technology's Alma Mater song for a period of one year. The older graduates are particularly strong in their partizanship of "The Stein Song," while the more recent graduates are not so deeply attached to it.

J. P. Munroe '82 can see no reason for substituting a new Alma Mater for "The Stein Song." "I don't believe a thing like that can be pushed through," he declared, when asked his opinion of the motion. "The Stein Song means a great deal to the older graduates especially, and even though the words were written by a Dartmouth man, the music was by a Technology man. Moreover, since the Stein Song has been our Alma Mater for so long, it has taken on associations with Technology that I do not believe any

## Startling Discovery By Institute Student

In their search for knowledge, Institute students often discover amazing facts of universal scientific interest; often quite by accident. That was the case with a Course I Sophomore, who the other day while visiting a friend in Arlington discovered a method of eliminating the use of earphones with a radio set. "We had a five tube polydyne set," he declared. "I had a finger on one binding post for the earphones, and the hand of my friend was against the other binding post. When we pressed our ears together we could hear just as clearly as if we had been using earphones. "We also tried the same thing with a thin sheet of paraffin paper between our ears," he added. It improved the reception a little, but it was not nearly so much fun."

## BEAVER BASEBALL TICKET SALE LAGS

### \$300 of Quota Yet to be Raised— Drive Will Continue For Three Days More

The Beaver Ball team's drive for the sale of season tickets is still lagging, and the managers of the drive are far from satisfied with the results. About \$340 have been collected to date, after six days of the drive. According to L. E. Bannon '27, coach of the Beavers, at least \$300 more must be obtained if the team is to have a satisfactory schedule, and for that reason the drive was extended another week.

All the remaining tickets have been given out to the members of the team and to the managers, and these men will make a determined effort to get rid of every ticket. Free lances will patrol the corridors of the Institute and canvass some of the freshmen and Sophomore class rooms.

The first game of the season will be played at Tufts April 16, the game with Rensselaer Polytechnic Institute scheduled for April 11 having been cancelled.

At present the schedule consists of six games, of which three are at home. If \$300 additional is not obtained, this number may have to be reduced, whereas if sufficient funds are received, the managers have a project in mind for a trip through Maine to play with several of the colleges in the Pine Tree State.

## SPEND \$750 FOR ROAD REPAIRING THIS SPRING

About \$750 will be expended in the road repairing this spring, and according to Major Smith, the work will take another week. The roads are being patched up with stones and tar, but no attempt is being made to make any permanent roads, due to the fact that the plans of the grounds are so uncertain.

Until the future building plans are definitely decided, Major Smith stated, it is useless to build good roads which heavy trucks would soon ruin if used for hauling building materials. As soon as a right of way is established, good roads will be built.

## TICKET SALE FOR TECH SHOW 1925 TO START AT NOON

### Will Receive Applications for Reservations for Boston Tomorrow

## SHOW TO BE BROADCASTED

Ticket applications for Tech Show performances in Boston will be received in the main lobby tomorrow and Friday between 12 and 2 o'clock. Men who are planning to go to any of the coming performances are urged to make their reservations at once in order to secure first choice.

Three performances of "The Duchess of Broadway" will be given at the Boston Opera House on the evenings of April 20, 21, and 22. The second of these, on Tuesday evening, will be the regular undergraduate performance. Inasmuch as the show has already given a total of five performances, it is certain according to the management, that the entire company will be at its best during these local presentations. The coach has been well pleased with the work of the men in putting forth a finished production, and it is possible that no further rehearsals will be held.

Newspaper critics in the cities where the show has been given to date are unanimous in their praise of the cast, singing and dancing, and music of "The Duchess of Broadway." The chorus is considerably larger than that of previous years, and the scenery is said to be more original and effective than any employed in previous Tech Shows.

Plans have been completed to broadcast song hits of the show from the Westinghouse Boston Herald-Traveler Studio, Station WBZ, on the evening of April 16 at 10:45 o'clock. The numbers which will be sung by members of the cast are: "You Would," "Swanee Dreams," "Be Your Age," "Don't Let Your Family Kid You," "Walking Down the Avenue," "Dutch," "Give Me a Night and a Girl," "North Wind Come Blow Me South," "My Lovey," and "Lifetime is Only a Day."

The first part of the performance on April 21 will be broadcasted by the same station from 8 to 9 o'clock. It will be impossible to broadcast the entire show on that evening because of the fact that the weekly "Brunswick hour" from Station WBZ comes at 9 o'clock. Last year was the first time that the show was sent over the radio, and hundreds of radio fans who heard the performance expressed their appreciation.

## Give Prom Ticket For Best Idea For Senior Class Day

### Committee Hopes to Bring Out Humorous Program for Annual Event

A ticket to the Senior Prom will be given to the member of the Class of 1925 who submits the best suggestion for a stunt for Class Day, and for the second best suggestion, a Tea Dance ticket will be offered. It has been felt that the right thing for Class Day has not been hit upon yet, and the Committee hopes by holding this contest to bring out some really creditable idea.

Only Seniors will be eligible, and contestants are asked to work out their plans in detail. Humorous ideas are desired. All suggestion must be turned in to W. W. Northrop by April 18.

Blanket tickets covering all events of Senior Week, June 11 to 16, except the Senior Prom, will cost \$8, it was decided by the Senior Week Committee at its last meeting. The Prom will cost \$8 additional.

Numerous inquiries are being made regarding the program for Senior Week, and the Committee wishes to announce again the schedule of events as they will probably be held. The class dinner will be held on the evening of Thursday, June 11; Friday evening will be class night at the Pops; on Saturday comes the picnic; Sunday afternoon, the Baccalaureate Sermon; Monday afternoon, Class Day and Tea Dance; on the morn-

(Continued on Page 4)

## DOCTOR CRANE URGES STUDENT BODY TO PRACTICE VAN DYKE'S FOUR FUNDAMENTALS OF LIFE

### Advanced Thinkers To Jump Ahead a Century

Not satisfied with this Twentieth Century of ours, certain forward-looking souls at Technology are about to form a Twenty-First Century club, whose avowed purpose is "Education for a Social Order Based on Better Mutual Understanding Among Individuals and Among Groups of Individuals." The club will hold its organization meeting in Room 2-146 at 4 o'clock tomorrow.

No limit has been placed on the membership—any Institute student who is interested in the future may join the organization. Plans for organization will be discussed and officers elected at the first meeting.

## WILL VISIT UNITED DRUG PLANT TODAY

### Corporation XV Will Inspect Large Manufacturing Plant This Afternoon

Corporation XV will conduct a trip to the United Drug Company's plant in Roxbury at 2 o'clock this afternoon. It will be limited to thirty men, the first thirty to sign on the bulletin board in the Engineering Administration Department. A trip to The Walworth Manufacturing Company in South Boston has been tentatively decided upon for April 22, a holiday.

Students taking Business Management will have an opportunity to observe the phases of plant management which they are now studying, including production control, routing of materials, and handling of personnel. The plant may be reached by taking a Huntington Avenue car and getting off at the Art Museum.

On condition that fifteen sign up before Saturday, the trip to the Walworth Manufacturing Company will be planned for April 22. The company is well known for its production control and for its sales forecasting methods. So successful have they been in the latter field that they have forecasted their sales with an error of less than five per cent for the past three years.

Other trips are planned to the Gillette Safety Razor Company, to the Weymouth power plant of the Boston Edison Company and to the Revere Sugar Refining Company. Choice of dates for these last three trips may be signified when signing up on the Engineering Administration bulletin board.

It is essential that those expecting to be able to attend one or more of these inspection tours register on the bulletin board. The corporation likes to know just how many men are to make a trip so that arrangements may be made in advance.

## Unusually Small Registration Drop This Term—Total Enrollment 2748

Registration figures for the third term show a decrease of but 78 over the second term, the present total being 2748. The number dropped since the beginning of the year 1924-25 is 190, approximately 6.4%, although it is often that the decrease in registration at other colleges is nearer 10%. However, the figures of previous years indicate that the percentage dropped at the Institute is materially increased by the end of the third term.

Course VI, Electrical Engineering, again has the largest individual registration with a total of 408. Course XV, Engineering Administration, including all options, is next with an enrollment of 398. The three courses with the next highest registration are Course II, Mechanical Engineering, 364; Course I, Civil Engineering, 314; and Course X, Chemical Engineering, 232. The largest decrease since last term is in Course IX-C, Mathematics, only six being registered at present, whereas

## "LIFE COMPREHENDS EVERYTHING WORTH WHILE" HE STATES

### Believes World Is Too Much Occupied With the Non- Essentials of Life

"Life comprehends everything worth while," stated Doctor H. Crane, as he started the first of his series of three lectures in room 10-250 yesterday. Thus in choosing the subject on which to address the student body here the speaker gave himself plenty of scope. Yesterday's talk was based on the four fundamentals of life as stated in one of Doctor Henry Van Dyke's poems: to think clearly, to love one's fellow man sincerely, to act honestly and purely, and to trust in God securely, are, stated in the language of Van Dyke, the fundamentals of right living.

Much emphasis was laid on getting down to the fundamentals of everything. Dr. Crane stated that the wise man gets down to the gist of things, but that "the world is not wise but otherwise" and runs to nonessentials making as much of a little portion of the truth as if it were the whole truth. Too many of us attempt to draw conclusions and argue about things such as life, God, the universe, and other things about which we know nothing and which, furthermore we are not capable of understanding.

In emphasizing the fundamental importance of clear thinking, the speaker stated that as a religion Christianity was not merely a set of rules but a religion of thought. "Christianity is an inner principle to guide and direct

(Continued on Page 4)

## MORE MEN ENROLL FOR C. W. S. UNIT THIS YEAR

Members of the Sophomore class who are taking the Chemical Warfare option in Military Science this term are being given the opportunity of learning the latest methods of waging war by chemistry. The Chemical Warfare Unit was inaugurated at the Institute last year by Captain Thomas Phillips and was the first R.O.T.C. unit of that nature formed in the country, and is still the only one in the country.

The instruction in the course this year will be the same in its essentials as last year, taking up the nomenclature and manufacture of the gas mask, description of the various gases and their effects. Later in the term, gas mask drills will be held out of doors, as well as smoke demonstrations. The method of emplacement of mortars and projectors will be taken up, and a number of practice shots fired to demonstrate their action.

## CALENDAR

Wednesday, April 8  
4:00—"Life" talk, room 10-250.  
Thursday, April 9  
12:00—Sabre and command drill, near Hangar Gym.  
1:00—Dartmouth Club April Luncheon, Walker Grill.  
4:00—"Colloidal Chemistry Applied to Geology," lecture, room 4-345.  
4:00—"Life" talk, room 10-250.  
5:00—Civil Engineering Society lecture, "The Engineer in Court," room 5-330.  
6:45—Copithorne readings, Walker library.  
Friday, April 10  
12:00—Sabre and command drill, near Hangar Gym.

A Record of Continuous News Service for 44 Years



Official News Organ of the Undergraduates of Technology

**MANAGING BOARD**

T. W. Owen '26	General Manager
J. R. Killian '26	Editor
C. E. McCulloch '26	Managing Editor
T. A. Mangelsdorf '26	Business Manager

**ASSOCIATE BOARD**

F. E. Anderson '27	News Editor
P. W. Creden '27	Sports Editor
H. F. Howard '26	Features Editor
L. F. Van Mater '27	Treasurer
H. M. Houghton '27	Circulation Manager
E. F. Stevens '27	Advertising Manager

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

**SUBSCRIPTION PRICE, \$2.50 PER YEAR**  
 Published every Monday, Wednesday and Friday during the college year.  
 Entered as Second Class Matter at the Boston Post Office  
 Members of Eastern Intercollegiate Newspaper Association

**EDITORIAL DEPARTMENT**

Editorial Board  
 Whitney Ashbridge '26 R. S. Chidsey '26  
 R. A. Rothschild '26

Features Department  
 N. R. Samaha '26 H. A. Willoughby '26

Photographic Staff  
 Features Writers  
 E. L. Welcyn '27 J. S. Harris '27

Cartoonist  
 E. P. Nowien '26

**NEWS AND SPORTS DEPARTMENTS**

Night Editors  
 L. C. Currier '26 A. D. Green '26  
 J. B. Goldberg '26 G. C. Houston '27

News Writers  
 J. D. Crawford '27 E. J. Gohr '26  
 Assistant Sports Editors  
 D. A. Dearnle '27 H. P. Ferguson '27

Sports Writers  
 A. J. Connell '27 A. S. Richmond '28

Reporters  
 J. W. Chamberlain '28 H. S. Schwartz '28  
 E. A. Johnson '28 W. L. Sichman '28  
 E. D. Lissner '26 H. E. Muhlenberg '27

**BUSINESS DEPARTMENT**

Advertising Division  
 Assistant Manager  
 George Gerst '27

Staff  
 J. A. Allan '28 Rene Simard '28  
 R. E. Connet '26 W. M. Smith '26  
 D. M. Sturznicke '28

Circulation Department  
 Assistant Managers  
 J. H. Harding '26 W. H. Reed '27

Staff  
 R. K. Doten '27 A. B. Guise '27  
 T. H. Dunn '27 L. L. Hopkins '27  
 J. P. F. Filkington '27

Treasury Division  
 Staff  
 V. R. V. Caputo '28  
 L. F. Beach '26 J. G. Collins '28  
 C. W. Scott '28

J. H. Melhado '27

In charge of this issue: J. H. Melhado '27

**A CALL TO DUTY**

LAST year a discreditable situation arose on Open House night because of the insufficiency of guides. Crowds of visitors arriving while no guides were available resulted in a considerable confusion.

In an attempt to avoid a similar situation this year, the Combined Professional Societies have issued a call for men to volunteer as guides. The work will not be very difficult, but a great many men are needed for the large crowd that will undoubtedly appear.

If visitors are forced to stand around waiting for men to be available to show them the points of interest; or if they are obliged to wander about without guides, they will certainly have a very poor opinion of Technology's "engineering efficiency." It is up to every man who can to offer his services to the committee in charge, and then to present himself here early on the evening of April 16. The Institute's reputation among the people who visit that night will depend in large measure on the student guides.

**ARCHITECTURAL FORESIGHT**

FROM the undergraduate viewpoint, the move to study the future architectural development of the Institute is wise and timely. Since the present group of buildings was constructed there has been no demand for additional plans, with the exception of Dormitory '93, but now that there is probability of further developments it is propitious that expert direction shall coordinate them.

At numerous places about the Institute are to be seen designs of a much enlarged Technology. Evidently these conceptions have become obsolete or else are to be improved. All of these are bold and vast in their conception and naturally awaken ambitions for their materialization. Perhaps the work of the new men, Messrs. Carlu and Carlson, will go further in increasing interest in new developments, beautification, and improvements. That the work should be carried on within the architectural school is of additional interest, and it will undoubtedly work to the value of the study.

**THE COLLEGE REPRESENTED**

IF a resolution now under consideration passes the Dominion Parliament, Canadian Colleges and Universities will be represented in the House of Commons at Ottawa. Although the representation of colleges is not a new idea in England, where the universities have long participated in the Government, it is new to this continent. The resolution as proposed reads: "That in the opinion of the House, the time has arrived in our national development when Parliamentary representation should be accorded our Canadian Universities." If this resolution be passed, some twenty institutions would be given seats in the House.

Though the idea of allowing the younger men a voice in the Government is an excellent one, we doubt whether so radical a step is advisable in this country. The thoughts of college men on current problems would undoubtedly prove valuable in many cases where new and unusual problems are somewhat beyond the men who have become settled in their view points, but on the whole, we cannot help but feel that more mature judgement is needed in the running of a country than would be possible were too many hot heads allowed to vent their opinions.

Many and many a time we of college age believe that our elders are "out of date" and "old-fogyish" but it takes old heads and much experience to take care of the varied problems confronting the legislative body of a country. Fortunately for Canada, the percentage of college men will not be so large as to threaten any revolutionary changes in policy. There will be more than enough older men to act as a balance-wheel and prevent the younger men who are bound to have more radical ideas from upsetting time honored traditions as the custom of over-zealous youth. Granted that it is a good plan to give the rising generation experience, but is it not apt to prove a dangerous experiment?

THE TECH, Volume XLV, takes pleasure in announcing the following elections to its staff: A. B. Guise '27 to the staff of the Circulation Department; H. E. Muhlenberg '27 to position of reporter. It regrets to announce the following resignations: F. A. Ward '27 of the News Staff; Isaac Gleason '26, Assistant Advertising Manager.

**THE EDITORIAL SPECULUM**

The talk of Dr. Crane was noteworthy in its force and in its application to the mythical Technology temperament. There is no mollycoddle sentiment in what he has to say; he is an inspiring and personally appealing speaker.

It was observed that none of the students rose when the President appeared to introduce the T. C. A. speaker yesterday. This was lamentable discourtesy on the part of the students. It takes much interpolation of facts not to conclude that, in the main, Technology students are boorish.

Mike Hoar has written an epistle to THE TECH explaining and defending his conduct as ground keeper of Tech Field. He avers that both THE TECH and the Metropolitan newspapers have misrepresented him, particularly as regards his smoking. He never does.

To the great hodge-podge of clubs already at Technology comes the addition of the "XXI Century Club." Indications are that it is a pacifist organization. The idea will be justified if it receives any support, but already too many lethargic organizations clutter up affairs. Incidentally, it is hoped that the club is not as futuristic as the name might imply.

Choral Singing, GS 58, is deserving of more support than it is now getting. It offers training that many men might find a cultural and social adjunct and in no sense is it a burden in respect to work required.

**Communications**

To the Editor  
 Dear Sir:

It has been suggested by members of the present course in general studies on choral singing that a brief statement from me on this topic might be of interest. I can only say that I regard the present course as offering a most valuable opportunity to the undergraduate body. The average Technology student is a pretty busy person and he has but little time for the pursuit of avocations.

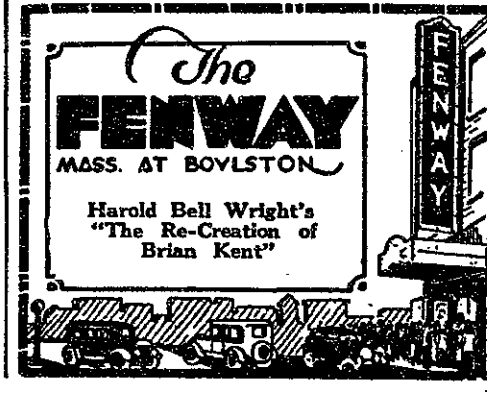
Such a course as is now given on the one hand offers him an excellent educational opportunity and on the other gives him something which in itself is recreational and pleasant. The study of the origins of music rendered concrete by personal performance offers a line of education in the broadest sense which is of the greatest value to the potential engineer.

I have been quoted recently in the columns of "The Review" concerning my belief in the value of student activities. I can only reiterate the position which I took at that time and which I have consistently held for many years. With the high educational standard at Technology, a standard that has been rigorously maintained through my period of knowledge of the Institute, we may all take for granted that sound and adequate training in the arts and sciences is given to the student. The Technology degree is not given with distinction as in sister institutions dealing with the humanities. The degree is itself the distinction. Recognizing then that the basic principle is concerned I feel it of the utmost moment that every opportunity be given to the student body to develop along other and more social lines that they may better take their place in the composite structure of our community life.

The younger man finds a direct line of approach to the older, if in addition to a sound technical knowledge which is his prime commodity he can present evidences of refinement, of taste, and of simple social understanding. Such a course as is now being given at Technology is broadening, is stimulating and perhaps most important of all, is recreational.

In spite of the small number of men taking the course this year—a logical sequence of its early stage of development—I feel that it has been an unqualified success. As an alumnus and one interested in the field I sincerely trust that it will not only be continued but that it will enlist the interest of a steadily growing number of the undergraduate constituency.

I am, Sir,  
 Very truly yours,  
 (Signed) A. W. Rowe.



**Side Interests Of Great Value — Acquire Hobby**

**"Get a Hobby—Indulge It Quietly" Is Advice of Writer In Harvard Crimson**

Above the clamor about "the true function of the college," and the "rightful business of a college man," in which our own undergraduate voices have been joining has lately arisen another voice counselling, "Are you not talking wide of the mark? Isn't the real problem of undergraduate life today not 'What shall we exclude from our activities?' nor 'How shall we preserve the college against the intrusion of side-shows?' but rather: 'Has any one of us a deep-rooted interest in any one subject, inside or outside the curriculum, together with such a passion for finding out everything about it that by very absorption in it he cannot spare much time for the side-shows?'"

In other words, warns this voice: "It is not by negatives that we will brush away obstructions to a clear view of our own situations. If we do that only, other obstructions will appear in our road tomorrow. Or, to change the figure, we will escape one pitfall only to tumble headlong into another.

"We will not begin to understand the spirit or the meaning of scholarship, or culture, until we have developed an intelligent interest in some subject which calls for the exercise of our faculties for knowing, judging, appreciating, and entering into the spirit of at least one immortal work of art, or architecture, or music, or literature, or philosophy, or science; or into the contribution to one of these fields of at least one masterpiece."

"If this at first seems narrowing, reflect that to judge one work we must, perforce, know others, else there will be no standard of comparison; and that as no man ever lived utterly alone, or without being affected to some extent by his times, so in studying the individual artist, or scientist, we are drawn by our increasing interest into a study of his background, his friendships, his reception by his own and succeeding times, and so on. The possibilities, in the case of a great worker or a great work, are practically limitless. And the satisfactions will be the ground-work of an awakened interest in other things of the mind.

"For, studying one subject, we become aware of our almost boundless ignorance of others; and unless we lack a conscience, we are moved by this sobering thought to make a further clearing in the forests of the Unknown. But until we begin to take such a lively interest in one subject we shall certainly not care very much about a number. This should be, but, I fear, is not an accepted axiom—at least, not in student practice.

"In summary, then, get a hobby. And indulge in it quietly and you will be surprised, one day, to discover that the intellectual life is a reality."

Walter Edwin Peck,  
 Harvard Crimson

**HERO OF PLAY AT ST. JAMES IS TOO BASHFUL**

A country swain may be very bashful in the presence of his beloved, but when, after she has just forced a proposal out of him, and he has been accepted, he stands around waiting for permission to kiss her, it doesn't really look human. That is what Bernard Nedell, as Tommy Tucker, does in "The First Year," at the St. James this week.

The proposition advanced by the old bachelor doctor, who sets himself up as a philosopher, is that no woman is sure of her choice of a husband until she has been married to him for a year. In a lively comedy that often borders on the farcical, Tommy and Grace go ahead to prove the proposition, with the inevitable quarrel and the reunion when Tommy learns that an addition is expected to his family.

Of course the other man has to appear, of a romantic type, with considerable ego and not a whole lot to back it up. And of course the enthusiastic young wife, in her eagerness to help her husband "spills the beans." The little side-touches of humor are added by a father who likes to have things repeated, a young nigger who is careless with china, and an ex-chorus girl, wife of a railroad purchasing agent.

J.H.M.

**Intercollegiates**

In the future, Columbia University will take over patents arising from research work done in its laboratories. The new policy is described by Professor Leo Hendrik Baekeland, discoverer of bakelite, as "an enormous step forward, and one of the great possibilities of research workers in the University."

Similar policies are carried out at the University of Illinois and the University of Toronto. In the laboratories of the latter institutions, insulin was discovered as a remedy for diabetes. The move at Columbia was hastened by the discovery by Dr. Theodore F. Zucker of a chemical product which is a specific remedy for rickets common among young children.

The librarians of the University of Michigan report that all the dictionaries containing synonyms have in some mysterious manner disappeared from the library shelves. This is surely a positive

**Play Directory**

- COLONIAL: "Kid Boots." Eddie Cantor and Mary Eaton at their best.
- COPLEY: "Happy-Go-Lucky." Comedy of caste in England.
- PLYMOUTH: "The Goose Hangs High." Comedy of domesticity.
- ST. JAMES: "The First Year." Reviewed in this issue.
- SELWYN: "The Four Flushers." Ambitious plans curtailed by longevity.
- TREMONT: "Grab Bag." The Perfect Fool funnier than ever.
- WILBUR: "Little Jessie James." Very good songs and so on.

**Good Friday April 10—Easter Day April 12 Go To Church Somewhere**

THE CHURCH OF THE MESSIAH, St. Stephen and Gainsborough Sts., (one block from Symphony Hall) welcomes students Good Friday 12 to 3 p.m.—addresses by Rev. Malcolm Taylor on "The Place of Self Sacrifice in Life." Easter Day Holy Communion 8 a.m. followed by Communion Breakfast, 10.45 Holy Communion and Sermon by the Rector Rev. William E. Gardner, D.D. 7.30 p.m. Evening Prayer, special music and Te Deum.

**Young Men's Spring Topcoats**

FULL fitting and box-back models—and, of course, a box-back connotes draping.

Then to be sure only delicate hand-workmanship can achieve that nicety of balance in the neck and blades which gives to a box-back its mobility of line.

Topcoats of utter responsibility and service—meeting in every other way the young man's wishes. Tweeds, plaid backs and ribbed weaves.

Priced \$40 to \$50

Productions of our own workrooms. Ready-to-wear.

(Young Men's Dept. 2nd Floor)

**Scott & Company LIMITED**

336 to 340 Washington Street, Boston

# Dr. Stratton Watches Crew Workout on Charles

## Charles Is Much Too Rough For Anticipated Crew Races

Dr. Stratton journeyed up to the Boathouse yesterday afternoon to watch the crews in action from the close proximity of the coaching launch for his first good look at the oarsmen this season. Unhappily the President picked a bad day for the Charles was particularly nasty during the late afternoon of yesterday, the wind whipping up whitecaps of such a size that brought concern to the managerial mind for the safety of the eights.

With such a condition of the river the anticipated race between the Varsity, J V's and 150's was out of question, the eights going down the basin at a slow stroke, taking care that the baby combers did not swamp the shells. Dr. Stratton expressed himself as pleased with the look of the crews as they swung down the river towards the East Cambridge Bridge. As luck would have it the undependable "Wolf" failed when it should have gone smoothly and broke down about half way down the course.

In the last few days the Junior Varsity has been improving rapidly gaining day by day on the peppy 150's until at the present time it is a toss up as to just what crew will go with the Varsity to Annapolis. The 20th of the month is rapidly approaching thus making it imperative that Haines choose the second crew to make the trip in the next week or two. Haines stated that he would race the two crews in the near future to see how they measured up. Up to a few days ago the 150's had it all over the J V's but the improvement shown in the latter eight in the last few days has made crew followers sit up and take notice. Yesterday in an informal race of about a half mile in length took place with both crews keeping together over the entire distance.

At the present the opinion about the Boathouse is that the 150's will have

to step on it before the test comes with the J V's as to which will take on the midshipmen at Annapolis. Haines intends to send the winner of this race to the Navy. The situation is very interesting and will afford no end of excitement to the crew enthusiasts in the next fortnight or until Haines definitely states his choice.

## Interclass Ball Teams Are Slow In Getting Going

Unless a new lease of life is shown by the upper class teams, composing the Inter-Class Baseball League, there is a danger of the games being called off. As yet, only the yearlings have shown any signs of life and have taken any interest in the forthcoming contests. The league got under way in the same slow manner last year, but only an immediate course of action on the part of the three upperclass bodies will save the schedule of games from a wastepaper basket fate.

According to Luke Bannon, Beaver Mentor, the spirit of the contestants is practically nil. He has not as yet been approached by the class officials in regard to the handling of the games. As the first contest is scheduled for next Wednesday, the participants to be Juniors and Sophomores, it is up to the members of the body to interest themselves in the affairs of their respective teams so that the league will not die a natural death.

**Frosh Have a Few Stars**  
The frosh have been bubbling over with pep and enthusiasm. As the youngsters are practicing daily with the Beavers, some idea may be gleaned of the way they are progressing. George Ferguson '26, a Varsity infield candidate, has taken the first year men under his wing. "Fergie" has had quite a bit of baseball experience and will prove apt in imparting the art of handling the pesky pellet to his ambitious squad. Several of the frosh have made strong bids for a Varsity berth, but the remaining material is promising and looms up as a strong contender.

Although few freshmen have been practicing with the Beavers they have some fine material. In Ohearn, ex-Rindge Tech player and Farwell, former Brookline High star twirler, they have two clever and experienced pitchers. Fay, an outfielder, is making a hot bid for the Beavers. Bianchi and Bob Sealy, infielders show Varsity capabilities.

In addition to these men, many ex-high and prep players have signified their intention of coming out. There are already forty men signed up for baseball. With all this excellent material and Luke Bannon's coaching, the freshmen ought to develop a team which will probably take the Sophomores in the coming inter-class games.

## BEAVER PISTOL TEAM DOWNS B.U. MARKSMEN

The newly formed pistol club at the Institute won its first competition of the season last Saturday in an informal shoulder to shoulder match with the Boston University Pistol Team. The scores of 877 and 867 shot by the teams were made with the Army automatic pistol. Those shooting for the M. I. T. Pistol Club were L. Connert G, H. B. Cuthbertson '25; I. L. Murray G; G. B. Tener '26, and N. Thompson '25.

### THE SPORTSMAN'S CREED

"Keep the rules.  
"Keep faith with his comrades play the game for his side.  
"Keep himself fit.  
"Keep his temper.  
"Keep from hitting a man when he is down.  
"Keep his pride under in victory.  
"Keep a stout heart in defeat accepted with good grace.  
"Keep a sound soul and a clean mind in a healthy body."

## ADVISORY COUNCIL DECIDES TO HAVE SABBATH SPORTS

### Inactivity of Calumet Club Meets With Council's Disapproval

### HEAR PROGRESS REPORTS

(Continued from Page 1)

objection to a practice earnestly looked forward to by many students who have no other recreational facilities available for their use.

Asst. Dean Lobdell went on record as favorable to the idea. There being no law in the State of Massachusetts that prohibits such a use he could see no obstacles other than the possible abuse of the privilege by the men taking advantage of this aid to recreation. Capt. "Chink" Drew, speaking on the undergraduate point of view stated, that the men in the Dorms, would greatly appreciate the opportunity to get out and enjoy on Sundays the track, ball diamonds and especially the tennis courts.

**Heard Sport Reports**  
Dr. Rowe stated after the motion was passed that should the idea meet the approval of President Stratton, rules would be drawn up to control the Sunday activity. At present Harvard's athletic facilities have been closed on Sundays in the same manner as have the Technology grounds; however, it is thought that the adoption of such a motion will start the ball rolling towards the direction in which the student desires have drifted in the past years.

Following the passing of this motion, Dr. Rockwell called for a report on the various sports from the Managers and Captains present. Drew reported the progress of the trackmen to be favorable for a good spring season although the team was hard hit by losing four stellar performers over the Vote Ten route. Guy Frisbie reported the crew to be advanced considerably farther along in practice than last season due to the early thawing of the Charles.

**Calumet Club Discussed**  
Considerable discussion was raised as to the activities of the Calumet Club during the past season. Dr. Rowe stated that the society functioned in good style during its first year, the subsequent year proving to be more mediocre in character while this year the club had ceased to function. As one of the undergraduates put it "the Calumet Club has only met about once this year and that to have its picture taken for Technique."

Several suggestions were introduced for the betterment of the club, all of which swung around the point of improving the personnel and leadership of the society. It was suggested to make the club more like the Red Key Society of Cornell after Goodman, an undergraduate at Cornell explained its workings. Dr. Rockwell wound up the discussion by charging the undergraduates to "go away from the meeting with intention of doing something and then do it."

"Ken" Lord suggested that the Sophomore managers and other men familiarly connected with sports at the Institute be appointed members of the club rather than men who do not know the sporting activity. This would make a club of men who would know the needs of an athletic team visiting Boston, and would thus serve with great efficiency than at present.

## JOE RUSSELL IS BEST PLAYER ON TENNIS COURTS

### Captain of This Year's Varsity Had Successful Year Last Season

### HAS A FINE STYLE

As the first meet of the season rolls around, the tennis team is rapidly rounding into shape. The outstanding player of this year's team is Captain Joe Russell, who is playing his third year of Varsity tennis. After watching Russell play on the Longwood covered courts, it is easily seen that he is in for the best year of his career.

Last year he was the most successful player on the team, winning more matches than any other man on the team. Against a hard-hitting Yale team, he was the only man that was able to win a match. The New England Intercollegiate caught him in a slump due to staleness. Tressel however went through to the finals to be beaten in a hard fought match by the Williams survivor. Russell and Tressel, however, brought about a tie by winning the doubles title, also meeting a Williams team in the finals.

**Has a Pretty Forehand**  
He has by far the greatest assortment of strokes and knowledge of tennis of any man on the team. Being a very light man, he has found the way to make every point count, in order to save himself. Last year he was dubbed the "Iron Man" by the Boston Transcript after playing three hard tennis matches in succession.

When asked about his service, he admitted that he did not use any stroke regularly but "chose the stroke to suit the occasion." His forehand, a long stroke with a very flat racquet and a straight follow through, is a beauty to watch in action. His backhand is a short, fast well placed shot, under excellent control.

**Good Support in Prospect**  
The control of the ball sums up Russell's entire game. It is not a hard driving crashing game, depending upon continuing speed to win points, but a steady well placed ball with enough pace on it to make his opponent hur-

ry the stroke and commit an error. Russell has a big advantage in being in the light weight class. Being light, he tires much less easily than a heavy man, winning many matches by tiring his opponent in the first set and winning the next two.

Russell will be ably supported this year by Broadhurst, Hinck and Peck. These three men have had a wealth of tennis experience and are capable of turning in numerous wins. Broadhurst is rounding into shape rapidly, practicing on the Covered Courts almost daily. He is a hard hitting player with lots of beef behind his strokes. At times his play is slightly erratic, but on the whole he is a fine player.

Hinck and Peck are both fine players, and will form a good nucleus for next year's team. The way things now look, they will be one of the doubles team, while Russell and Broadhurst will form the other.

The crew management has acquired a new launch for coaching. The hull was given by Professor Norton and the engine by J. L. Batchelder '90. The boat will soon be launched at will be ready to take the place of the "Wolf" when ever that boat breaks down.

## COPY NURMI

At last Finnish training methods have been introduced in the practice of the trackmen on the cinders every afternoon. It is not uncommon in the least to see a dozen or more future Paavo's, while passing a certain point on the path, glance down with puzzled frowns at the large, imposing looking watches with which they are supplied by the coach. "Eddie" Chute of the frosh team introduced the fad and it was not long before it was tried by other members of the squad with seemingly success.

Yesterday afternoon a freshman rooky seemingly burlesquing the situation came running over to Oscar and with an excited voice flashed a large radiolite Ingersoll yelling, "Look, Os, the watch showed 51 flat for the quarter I did." Os showed his contempt for the timer and time piece by just looking at the freshman for an instant and then calmly strolling away with his pipe tightly clenched between his teeth.

**TYPEWRITING of THESES and REPORTS Done at Tech**  
Apply to MISS HESSELTINE, The Tech Office, Room 302, Walker.  
—Reasonable Rates—

**DORRETY of BOSTON**  
The only LOCAL manufacturer of Technology Jewelry  
Quality ALSO service


**Experienced American Big Game Hunter**  
Accustomed to directing young men and familiar with the territory will personally conduct a party of six students on a hunting, fishing and trapping trip of three weeks, starting August 24th from Montreal in the Hudson Bay country, Canada. A canoe trip of 160 miles, a Hudson Bay Post, quantities of bear, beaver, moose, ducks, grouse and big fish. Expenses including carfare, camp equipment, meals, and a canoe and guide for each man, \$285.00.  
Preference given in order of receipt of applications which close May 15th. For further information apply, William Cardinal, 210 McCartney St., Easton, Pa.

**Robert A. Boit & Co.**  
40 Kilby Street  
Boston

**INSURANCE OF ALL KINDS**

**SIMPLEX**  
Simplex Wires and Cables, insulated with rubber, paper or varnished cambric and covered with braid, lead or steel armor, are rendering satisfactory service in many of the larger power stations of the country.  
**SIMPLEX WIRE & CABLE CO**  
Manufacturers  
201 DEVONSHIRE ST. :: BOSTON

**How did your Garters Look this Morning?**



**Boston Garter**  
WIDEWEB  
Quality First

Worn the world over by well dressed men—young or old—because of these superior points:

- ▶ All-Rubber Oblong Button, holds stockings taut— for trim ankles.
- ▶ Hook and eye cast-off— for convenience.
- ▶ Slide Adjustment— for fit and service.
- ▶ No metal parts on face of pad— no wrinkles.
- ▶ The pad without a pucker.

MAKERS  
GEORGE FRIST COMPANY  
BOSTON

# TECH SHOW 1925

Applications Must Be Filed in Main Lobby to Receive Preference.

Thursday and Friday

12-2

## CRANE URGES RIGHT LIVING ON STUDENTS

Declares That Everything Worth While Is Included In "Life"

(Continued from Page 1)

thought." He showed how Christ took the ten commandments and turned them into the philosophy that "as a man thinketh in his heart so is he." Many times sin is brought about by lack of clear thinking, hence Dr. Crane's advice, "Don't try to think about things that are too far away to see clearly."

The speaker, in presenting the "love thy neighbor as thyself" philosophy, attempted to convince his audience that such a love was not love as we ordinarily look at it but merely man's effort to seek his neighbor's welfare at the expense of his own. Such a philosophy is not only practical but ultimate since it does away with the opposition of one man to another and hence promotes progress which would naturally be hindered by opposing parties.

"We acquire goodness by constant practicing and acting according to every good impulse," continued Dr. Crane. Everyone has evil thoughts, but sin begins when the person grabs on to the evil thought, which may be killed by being crowded out by good thoughts. Finally in urging the men before him to act from honest motives purely, the speaker advised his audience not to crowd out or suppress good motives.

As the last point in the address, Dr. Crane spoke on the importance of trusting God and heaven securely which means to believe that good is more powerful than bad. "You can't prove that there is a God, or that good is more powerful than evil, or that any other proposition by which one lives is true. It is a matter of belief, not of credulity." In defining belief, the lecturer called it going as far as possible within the bounds of intellect and then taking a leap in the same direction in which we have been traveling.

The lecture was quite well attended, although there was not the noticeable crowding which occurred at Dr. Seerley's sex talks last year. Dr. Stratton presided at the first talk.

Recent figures obtained from Harvard Square news dealers shows that Harvard men read about a thousand copies of the Saturday Evening Post a month. The Liberty magazine does not seem to be so popular as in Boston for there are only about 500 copies sold in a single month. The humorous magazines are the closest contestant for the first place: Life seems to enjoy tremendous vogue with Vanity Fair following very closely. The American Art Student and art magazines usually considered as rather slow selling periodicals by most college news dealers sells as fast as the Saturday Evening Post and Life at Harvard.

**JOHN SPANG**  
QUALITY RADIO EQUIPMENT  
STANDARD SETS AND PARTS  
INSTALLATION SERVICE  
Phone Kenmore 6745  
125 MASSACHUSETTS AVENUE  
(Next to Cor. Boylston St.) Boston, Mass.  
"First Tested—Then Sold"  
—Discount to Tech Students—

**HEWINS & HOLLIS**  
Men's  
Furnishings Goods  
4 Hamilton Place  
Boston  
Opposite Park St. Church

**Dress Clothes Renting**  
DRESS SUITS  
TUXEDOS  
SHOES  
SHIRTS  
ETC.  
"Quality Always"  
**READ & WHITE**  
111 Summer St., Boston  
Special Rate to Tech Students

## PROM TICKET OFFERED FOR SENIOR WEEK IDEA

(Continued from Page 1)

ing of Tuesday, June 16, Commencement; and on Thursday evening, the Senior Prom.

The Prom will probably be held in Walker as last year, since it is the general feeling that the last event of the Senior Class after four years in the Institute should be held in the building that has been for the entire four years the center of its undergraduate activities.

After the Junior Prom a meeting of the whole committee will be held and at that time full arrangements will be made for disposing of the blanket tickets. It is expected that the sale of these will start about the first week in May. The Senior Rumor, a periodical published annually by the graduating Senior Class, will make its first appearance about that time.

## WILL REBUILD FAMOUS SHIP BY SUBSCRIPTION

According to Lieutenant D. W. Coe, '19, attache of the United States Navy in Course XIII, the campaign now being carried on by the Navy Department to secure funds for reconditioning the "Constitution" is an extremely worthy cause. Congress authorized the reconstruction of the famous ship, but appropriated no money, so that the Navy Department has started a campaign to raise funds for the purpose.

It is planned to secure the money by subscription from various patriotic societies and schoolchildren, where the educational and patriotic features of the Constitution's history may be brought out with profit. The colleges are not included in this campaign, but contributions from individuals will not be refused.

The "Constitution," which now lies in a much decayed state in the Boston Navy Yard, is perhaps the most famous of the older warships, and was in active service for 84 years. During the war of 1812, this ship captured many enemy vessels, the most famous battle perhaps being the defeat of the "Guerriere."

## 60 TICKETS FOR PROM ARE STILL AVAILABLE

The Junior Prom Committee will again redeem sign-ups and sell tickets for the Prom, next Tuesday from 10 to 2, in the main lobby. At that time any changes regarding seating arrangements should be made. About 60 tickets have not yet been sold.

If anyone's seating assignment card does not agree with the seating arrangements posted in the main lobby, the seating assignment card should be changed by the holder unless it is the list which is in error.

The committee will soon announce the full schedule of events for Junior Week.

## INTERCOLLEGIATES

(Continued from Page 3)

sign that a cross-word puzzle epidemic is raging among the students of that university.

"Wild Asses," written by James G. Dunton, a Harvard man, has been recently published. It is probably the latest book depicting college life from this new angle. The main idea of the author was to bring out the life of a college man who was suffering from the post-war mania; craving for excitement and empty thrills. From the most recent book reviews and sales reports "Wild Asses" seems to be living up to the expectations of Mr. Dunton.

The character and personality of the Yale Sheffield Scientific School students will come under the attention of the administrative office as well as their scholarship, according to the announcement of the Yale University. To carry out this plan a personnel body will be initiated, which will report on the appearance, mental keenness, accuracy, courtesy and other attributes of the students. Also work done in activities is credited in the reports. The faculty hopes that in this manner it will encourage men to develop their entire person instead of confiding the greater part of their attention to their mental development.

For the first time in the history of the American Colleges a college of the United States will conduct a summer school in Mexico. As a part of the plan of promoting better friendship and understanding with Mexico, William and Mary College, of Virginia, the second oldest institution of the United States, will open a summer school at the University of Mexico to make a thorough study of the Mexican civilization. The University of Mexico is the oldest institution of learning in North and South America and this act is the first instance of mutual recognition between the University of Mexico and an American College.

## Notices and Announcements

### OFFICIAL

#### COLLOIDAL CHEMISTRY

Dr. H. C. Boyde of the Institute will deliver the second of a series of lectures on "Colloidal Chemistry Applied to Geology" in room 4-345, tomorrow at 4 o'clock. All interested are invited.

#### ATOMIC STRUCTURE, 5.75

Professor Blanchard will be away next Friday, and the lecture of that day will be postponed till the following Tuesday.

#### GEOPHYSICS LECTURES

Dr. Robert B. Sosman will give the fifth of his series of Geophysics lectures, "The Earth's Symmetry and Structure," in room 4-370 at 4 o'clock Monday. The sixth lecture, "The Earth's Elasticity," will be given Tuesday, April 14.

#### CADET OFFICERS

Sabre and command drill for Cadet Officers, Co. 'D,' will be held near the Hangar Gym at 12.00 noon Thursday and Friday, this week. Attendance is optional, but is requested.

#### UNDERGRADUATE

##### JEWISH STUDENTS

Those who cannot be present at the Seder Services and would like to observe them at the homes of members of the Temple Israel Sisterhood will kindly leave their names in box 197, main lobby as soon as possible so that invitations from the members may be forwarded to them.

##### SPRING CONCERT

The annual Spring Concert will be held in the Hotel Somerset on Monday, April 20, from 8 until 3. Tickets are \$6 per couple or \$4 stag.

##### ORCHESTRA CONTEST

The contest for the new dance orchestra name ends April 13. Anyone who has not yet submitted a suggestion is requested to do so immediately. Names should be enclosed in sealed envelopes and addressed to E. B. Haskell, room 3-310, Walker Memorial. The prizes are two couple tickets for the Spring Concert.

##### XXI CENTURY CLUB

An organization meeting will be held in Room 2-146 on Thursday, April 9, at 4 o'clock. The object of the new club is: "Education for a social order based on better mutual understanding between individuals and between groups"

##### ELECTRICAL ENGINEERING

Nominations for next year's officers will be due not later than Saturday noon April 11, in Box 224, M. I. T. Nominations should be on the form in the T. C. A. handbook. Officers to be elected are Chairman, Vice Chairman, Secretary, Treasurer, three members of Executive Committee and a representative to the C. P. S.

##### LIFE PRINCIPLES

Typewritten copies of the "Four Points of Living of Dr. Van Dyke," mentioned by Dr. Crane yesterday, may be obtained at the T. C. A. office.

##### T. C. A. EMPLOYMENT

Morgan Memorial will pay 75 cents an hour to men who can give fifteen hours a week. Call immediately at the T. C. A. office.

##### HANDBOOKS

A certain number of last fall's T. C. A. paper covered handbooks are available for those men willing to call at the office for the same.

## MERITS OF PRIZE SONG ALUMNI DIFFER AS TO

(Continued from Page 1)

Courts of M. I. T., I immediately thought, 'Someone—I did not know then who had written it—has actually succeeded in fitting to Bullard's music, words which metrically and in spirit accord with the music, which have poetic value, and which succeed in representing the spirit of the Institute.'

"It is a well known fact that no one is more conservative than the undergraduate—the fact that a thing is new is, with him, enough to condemn it. The first prize song was a poor song, and it was not given a fair chance, so that it perished miserably. The second was better, but it, too, failed for lack of support. This song will go the same way, defeated by the strong prejudice of the undergraduate against anything new, unless it is tried out, to make the student familiar with it.

"I do not believe you can force upon the student a song which they do not like. But unless they are given an opportunity to know the song, by singing it, they cannot tell whether they do like it. For that reason, I am heartily in favor of the Institute Committee's plan."

### M. E. NOMINATIONS

Nominations for officers for the year 1925-26 must be turned in at room 10-100 before 1 o'clock Saturday, April 11. Elections will be held in room 4-460 Wednesday, April 15.

### SENIORS ATTENTION

For the best suggestion for a stunt for Class Day, the Senior Week Committee will give a Senior Prom ticket. For the second best suggestion a Tea Dance Ticket is offered. Only Seniors are eligible for this contest, and contestants should work their suggestions out in detail and in a humorous vein, such as a take off on "Tech Life" and sent to me.

255 St. Paul St., Brookline.  
W. W. Northrop, Chairman.

### C. E. SOCIETY

At a meeting of the M. I. T. Student Chapter, American Society of Civil Engineers, to be held tomorrow in room 5-330 at 5 o'clock, Professor Breed will speak on "The Engineer in Court," and expert testimony.

### DARTMOUTH CLUB

The April Luncheon of the Dartmouth Club of M. I. T. will be held in Walker Grill Thursday, April 9, at 1.10 P.M.

### "LIFE" TALKS

The second and third of the "Life" talks which are being given by Dr. Crane in room 10-250, under the auspices of the Technology Christian Association, will be given today and tomorrow, respectively, at 4 o'clock.

### COPITHORNE READINGS

There will be a reading in Walker Library tomorrow at 6.45 by Mr. Copithorne from the works of Stevenson. Two additional readings will be given this term.

## Makes Autos Go 49 Miles On Gallon of Gasoline

An amazing new device has been perfected by James A. May, of 7025 Lacotah Bldg., Sioux Falls, So. Dak., that cuts down gas consumption, removes all carbon, prevents spark plug trouble and overheating. Many cars have made over 49 miles on a gallon. Any one can install it in five minutes. Mr. May wants agents and is offering to send one free to one auto owner in each locality. Write him today.



## STONE & WEBSTER

INCORPORATED

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas and chemical plants, industrial plants, warehouses and buildings.

CONSTRUCT either from their own designs or from designs of other engineers or architects.

OPERATE public utility and industrial companies.

REPORT on going concerns, proposed extensions and new projects.

FINANCE industrial and public utility properties and conduct an investment banking business.

NEW YORK BOSTON CHICAGO

## Obtain better blasting results at lower cost



Du Pont chemical engineers insure uniformity of quality by chemical control through every step of manufacture from raw material to finished product.

WHEN you buy du Pont explosives you buy something more than a commercial product.

Back of every pound of du Pont explosives is the knowledge and experience gained during 122 years in the development and production of explosives.

The uniformity of its products has made the du Pont Company's explosives standard throughout the world. This uniformity is obtained through the exercise of the most careful selection of all materials and the complete chemical control of every stage of production from raw material to finished product.

Because of the quality and efficiency of du Pont explosives their users do obtain better blasting results at lower cost.

Don't fail to send for your free copy of the "Blasters' Handbook,"—an authoritative work describing the practical methods of using explosives in every field. You will find this book invaluable both in college work and your reference library.

E. I. du Pont de Nemours & Co., Inc.

Explosives Department

WILMINGTON, DELAWARE



POWDER MAKERS SINCE 1802