

## TECH SHOW SKITS ENTERTAIN MASS. SAFETY COUNCIL

"Technicalities" Nears Climax  
For First Performance  
Tuesday Night

### TICKET SALES CONTINUED

Several members of the Tech Show for 1931 production, "Technicalities," earned their dinner at the regular meeting of the Massachusetts Safety Council last night by presenting the skit, "Divorce Granted," and two dance numbers, "The Tech Tap," and "Waltz Novelty Duet," before the Council in the North Hall of Walker Memorial.

Several of the management as well, were on hand and by the time all the diners had finished their last course an impromptu stage was in readiness. Music was also at hand and soon ten members of the chorus introduced the feature entertainment to the tune of "The Tech Tap," a number from "Technicalities" composed by Eugene S. Clarke '34. Immediately following which came the spicy skit also from this year's Tech Show, "Divorce Granted." In it Alexander Nichiporuk '33, as an innocent puritanical upholder of womanhood, and Donald Smith, Unc., as a Hollywood siren, shared the spotlight. Then Eino A. Jaskelainen '34, and Warren L. Towle '34, concluded the evening's diversion by demonstrating how graceful engineers can be in "Waltz Novelty Duet."

Their repast well settled, the members of the production ascended to the stage in the Walker gymnasium where the rest of the actors, actresses and chorines were making ready for Langdon Matthews to put them through their paces. Rehearsals have continued this past week not as usual but with greater expenditure of energy. Lines have long since been learned so that now inflections and facial expression are being practised and perfected.

Following tonight's rehearsal the stage crew will dissemble the stage in Walker and generally get everything ready to be trucked to the Fine Arts theatre tomorrow afternoon where the reverse action, that of tying drops on batons, focussing spotlights, and arranging curtains, will take place.

Ticket sales are increasing daily but there are many yet available and the Tech Show desk in the main lobby of the Institute will continue to be manned on up into next week. It is announced that reserved seats will be held for those so desiring until the day before the performance they are good for.

## FRESHMEN WILL HAVE NO DANCE THIS YEAR

### Mistake in Dates Forces Frosh To Call Halt to Plans

"Due to the conflict in dates, the freshman Dance Committee announces that the project will be given up for this year," said Sayward H. Farnum '34, spokesman for the Dance Committee at the meeting of the Institute Committee last night in the West Lounge of Walker Memorial.

That the Executive Committee shall have two extra meetings each year to fix the calendar for the important Institute dates was also passed at the meeting. Donald B. Gilman '32, chairman of the Junior Prom Committee, announced that over two hundred signups for the Prom had been received. The recent elections of the T. E. N. were submitted for the approval of the Point Committee.

## DORM DANCE TONIGHT DEFIES UNLUCKY DAY

Tonight, the night when all superstitious people should warm the fireplace or the sheets, Friday the thirteenth, the Dorm men are showing their courage and running an informal dance. It is suggested that in spite of this show of courage, proper precautions should be taken. Tickets may be obtained at the Dorm Office for one dollar and fifty cents.

From 9 o'clock until 2 the Collegian Ramblers will play their unluckiest pieces in the endeavor to keep the dancers in the proper mood. The chaperones will be Professor and Mrs. James R. Jack and Mrs. Leicester F. Hamilton.

## Colloquium Will Discuss Problems About Telegraphy

Telephone Company Engineer  
Will Discuss Development  
Of New Systems

"Modern Telegraphy and Its Trend" will be the subject of the next colloquium of the Department of Electrical Engineering to be led by Mr. R. D. Parker, Telegraph Equipment Development Engineer of the American Telegraph and Telephone Company, next Monday and Tuesday from 2 o'clock to 4 o'clock in Room 10-275.

By arranging their work so as to be present on both occasions, students may derive maximum benefit from the presentation, which will occupy the two days. Those who desire a personal conference with Mr. Parker on Tuesday morning should arrange with Miss Baker in Room 4-202 before 9:30 o'clock for appointments.

Following are some phases of the subject which Mr. Parker will cover:

- I. A study of the mechanisms for translating the letters of the alphabet into the proper electrical impulses and vice versa.
  - A. Manual systems.
  - B. Semi-automatic systems.
  - C. Automatic, or printing systems.
- II. A general discussion of the laws

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## X-Ray Phenomena To Be Discussed In Sunday Lecture

Professor B. E. Warren Will  
Give Fourth of Popular  
Science Addresses

"X-rays and the Structure of Crystals" will be discussed by Professor B. E. Warren of the department of physics in the fourth illustrated Popular Science Lecture to be given at the Technology next Sunday afternoon. The lecture, which is open to the public, will be given at 4 p. m. in Room 10-250 at the Institute, under the auspices of the Society of Arts.

Dr. Warren will describe the nature of X-Rays, and will illustrate their properties and effects by means of striking experiments. He will demonstrate the phenomenon of X-ray diffraction by crystals, by which physicists study the arrangement of atoms in crystals. The speaker will transform diffracted X-ray beams into sounds resembling gun shots, by means of a very sensitive instrument, the Geiger counter spectrometer.

He will explain, furthermore, how this apparatus has enabled scientists to measure the distances from one atom to the next, distances of the order of one 100,000,000th of an inch. Two spectacular experiments will be the microscopic projection of the growing of crystals, and a crystal loud speaker. Professor Warren will illustrate the way in which atoms go together to form various crystalline substances, among them such complex substances as asbestos and mica.

## BEAVER CLUB ELECTS SOPHOMORE PLEDGES

At a meeting of the Beaver Club night before last at the Phi Kappa Sigma Fraternity house the following pledges were elected from the class of 1933: Charles W. Ball, Charles C. Bell, Pierre S. duPont 3d, Albert G. Frost, Richard L. Fosset, Cyrus S. Hapgood, Gustave E. Kidde, William W. Laird, Jr., Herbert M. Larrabee, Jr., David W. Lee, Richard S. Morse, Edward M. Rickard Jr., Benjamin F. Sands, Bretton Perry, and William C. Walcutt.

## Phosphorous Promises Brilliant Prom Issue

Phosphorous has exceeded his usual self in getting out a Prom issue that combines the rarity of an oversize make-up with art work that only the enthusiasm of a newly inaugurated managing board could produce. In the past the oversize numbers have been sold for thirty-five cents but this time Technology is being treated to extra value at the usual price. Phos says that conditions are fundamentally sound and there is no depression in "Voo Doo" humor.

## URGES INSTITUTE MUSEUM ADDITION

Carlson Declares Technology  
Has Admirable Nucleus  
For Exhibit

Outlining his reasons for the development of a scientific museum at Technology, Harry J. Carlson, the well-known architect, stated in the March Technology Review that the original charter provides for the establishment of a museum in conjunction with the Institute. In view of the fact that such an exhibit would not only enhance Technology but would be of inestimable value to the public, Mr. Carlson feels that its erection is a duty.

The Institute already has here and there models and machines which in their uniqueness might well form the basis of a scientific museum, which at first could be limited to the textile and graphic arts, with allowance for expansion as opportunity offers. As far as possible, the addition should be modeled after the Deutsches Museum of Munich.

These suggestions appeared at the conclusion of a descriptive article on the Deutsches Museum, one of the most popular in Europe. This became possible under the direction of Dr. Oscar von Miller and the citizens of Munich, and contains 60,000 things to see, or nine miles of exhibits, in order of evolution of the major branches of science, engineering, and industry. Mr. Carlson describes in detail the departments of geology, power, land transport and aviation, mathematics and physics. These are only a part of the activities of the museum, for there are representations of telegraphy and telephony, optics, music, chemistry, building materials, astronomy, and textiles.

The author mentions in his article all the important industrial museums of Europe, the Conservatoire des Arts et Metiers in Paris, and the Science Museum in London. The development of technical exhibitions in this country has been tardy, although in another year Chicago will have one. Philadelphia is making plans, and Washington is petitioning Congress. What more fitting, then, asks Mr. Carlson, than for Technology to fill the need in New England?

## Combined Clubs Offer Concert Organization Gives Program For Assurance Company Employees

At the Employee's Recreation Hall of the Employer's Liability Assurance Company the organizations of the Combined Musical Clubs gave a concert and played for dancing afterward last night. Beginning at 7:30 o'clock the concert lasted until 8:30, when dancing until 10:30 o'clock followed. This concert is the second of a series being given this year at various corporations, the first having been given at Filene's.

Following is the program presented by the Combined Clubs last night:

Banjo Club  
Castle Chimes .....Fred Strubel  
La Sirena .....Walter Burke  
Flying Cloud .....A. J. Weidt

Glee Club  
Cantate Domino .....Von Hasler  
Nightingale .....Tschalkowsky  
Hunting Song .....Bullard  
Instrumental Club  
Song of India .....Rimsky-Korsakow  
March-Del Rio .....Hughes  
Specialty Presentation by J. L. Dodson.

A group of Negro Spirituals arranged by H. T. Burleigh.

Techtonians  
Fantasy on Peer Gynt Suite—Grieg  
Star Dust .....Hoagy Carmichael  
Specialty Presentation by Francis Mathews and Warren Pease.

Glee Club  
Take Me Back to Tech.....Litchfield  
Stein Song .....Bullard

## FRESHMEN AWARDED NUMERALS IN HOCKEY

For their work on the freshman hockey team, the following were awarded numerals: Roger H. Williams, Thomas M. Burton, Richard K. de L'Etolle, John A. Hrones, Frederick C. Johnson, James F. Mullen, G. Williard Patch, Hereward A. Reynolds, Walter Silverman, Ranson S. Thomas.

## United Fruit Company Head Opens Course XV Addresses

Noted Industrialist to  
Speak This Afternoon



Victor M. Cutter

## Class Crews For Annual Cup Race Will Start Work

Boat For Ineligibles Will Be  
Put Out If Enough Men  
Come Out

With the date of the Richards Cup Races approaching the class crews should be getting into shape. The freshman crew that will race has been out for some time, and crews for the other classes should start at some near date.

To decide the freshman entry, the second heavy crew and the first fifty crew will race shortly before the Cup races. Last year the fifty crew won the race to represent the class.

Plenty of Shells for Class Crews  
There are plenty of boats to take care of all men who wish to try out for any of the class teams. A good number of lapstreaks and shells are at the boathouse for these crews.

Men on the Varsity crews will not be allowed to participate in the races. None of the first three crews can have entries in the races and, likewise, the first freshmen crew cannot row in the race.

Flood waters have receded and the boathouse once more stands high and dry. No longer will wet feet or tall boots be the vogue until another of the young tornadoes comes down upon the Charles. Managers may one more walkout to the end of the floats without a little stick in their hands to keep them from any icy bath. Towels have ceased to be an essential part of the shell equipment for drying the feet of the members of the crews.

Another new crew will make its appearance on the river soon. The crew will be for men ineligible for the Varsity crews. These include transfers, who have not been here a year yet, and, also, those men who have been here more than four years. If enough of these men come out, they will be put in a special shell.

Races will be scheduled for the crew with like crews from Harvard or elsewhere. Any men who are interested should report to the crew house immediately.

## Wanted: Way To Stop Book Disappearances

Unusually brisk trade in the second hand books shop conducted by the T. C. A. has been marred by a sudden increase in the number of books stolen. Since the beginning of the term a total of fifty-five dollars' worth of material has been carted away unnoticed and there is a vacancy for the master-mind who can remedy the situation. One individual found that the purchaser of fourteen dollars' worth of his books had neglected to pay for them. He decided to compromise with the book exchange and collected only seven dollars.

## VICTOR M. CUTTER DELIVERS FIRST OF BUSINESS LECTURES

Noted Industrialist Will Be  
The First Presented by  
Course XV

TO SPEAK TODAY IN 5-330

Inaugurating the series of authoritative lectures by prominent industrialists of the country, the department of business and administration will present Victor M. Cutter, president of the world's largest agricultural organization this afternoon at 3 o'clock in Room 5-330. Although primarily designed for members of Course XV, the students of every department and faculty are invited to hear this address in which Mr. Cutter will discuss the organization and management of his organization.

The introduction of such a unique group of lectures in which the services of a number of other prominent men has already been assured is the culmination of a plan which has gradually been taking shape for some time. On observing the growing demand for engineer-executives whose scientific background has been complemented by business training, the department of business and engineering administration conducted a survey of 1000 graduates of Course XV which showed conclusively the trend toward executive positions within fifteen years after graduation.

### Educational Experiment

It was with the desire to familiarize the student with the administrative point of view during his early training that this unusual educational experiment is being conducted. The distinguished industrialist, Paul W. Litchfield, President Tire and Rubber Company and Gerard Swope, President of the General Electric Company, will speak at a later date.

Mr. Cutter entered Dartmouth College in 1899, graduating in 1903. He then entered the Tuck School of Administration and Finance from which he was graduated with honors in 1904.

When at the Tuck School he majored in Spanish-American trade, devoting special attention to the commercial geography of the West Indies, Central and South America, and to commercial Spanish, general management and finance. Upon his graduation from college he made application for employment to the United Fruit Company and accepted a position in May, 1904, as Timekeeper in the Costa Rica Division of the Company. The following year he was appointed Overseer in charge of the Luisa East Farm. Later in the same year he was also given charge of the Agricultural Experiment Station.

His appointment as Superintendent of the Zent District in Costa Rica soon followed with supervision over

(Continued on Page Four)

## A. I. E. E. WILL HEAR TWO STUDENT PAPERS

Dr. Stratton to Attend Dinner  
Meeting and Discussion

"Super Power Production" and "Power Factor Correction and the Fynn-Weichsel Motor" will be the subject of two student papers that will be presented to the Student Branch of the American Institute of Electrical Engineers, next Tuesday at 5:30 at a dinner meeting in the North Hall of Walker Memorial. Tickets may be obtained from Room 4-203 for sixty cents.

Francis D. Weeks '31 will give the first paper on production and will cover the interconnection and interchange of power between electrical utilities. It has not been developed practically as yet but in a recent test power was transmitted from Boston to Chicago and from there down to Florida.

Intriguing problems arise in the correction of power factor and along with a recently developed motor for this end, they will be explained by Gordon S. Brown '31 and John C. Gibson '32.

**A Record of Continuous News Service For 50 Years**



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

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

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In charge of this issue: Fred W. Kressman '33

**FAILURE FOR THE BEST**

AFTER a long and disheartening uphill struggle to be allowed to hold a freshman dance, the officers of that body now find that they must definitely cancel the affair, only because of the inability to fix a date which will have no conflicts. The first opposition which the promoters of the occasion met was in the Institute Committee, where considerable discussion arose as to the financial capability of the class, and only until the freshmen provided a working capital was the move sanctioned. However, even though the fund has been raised, the class of 1934 finds that all its hopes are banished, and it must retreat into its former social obscurity.

The failure of this dance before it became an actuality is undoubtedly the best course that events might have taken. Within the last few years, the financial receipts of all class dances have been on the decline, and, as a matter of fact, very few of them have enjoyed any show of success. The individual risk is great, too great, certainly to be assumed by the class treasury, consequently the promoters must supply the financial support, taking the loss or profit, as the case may be. A failure in the first year means that these men will carry through their four years at the Institute the concept that a class dance which pays for itself is more the result of good fortune than of good management, and accordingly be somewhat prejudiced against holding any further functions.

The present attitude continuing, it is not improbable that within a few years there will be no class dances. At present the situation is such that the only men who may be depended upon for the support of the affair are those who are interested primarily in their financial responsibility. Upon the fore-ordained failure of this year's freshman dance may, perhaps, be laid the success of the Sophomore dance next year. It seems, therefore, that the class of 1934 has learned a valuable lesson.

**APPROPRIATE ANTICIPATION**

AT THE INSTITUTE COMMITTEE meeting yesterday afternoon, the responsibility for outlining the Institute's extra-curricular calendar was definitely placed in the hands of the Executive Committee by an amendment to the constitution which governs these bodies. The fact that there is to be some anticipation of the school year's major functions merits some plaudit, but the fact that there is to be a responsible supervision of this outlining is by far more important.

This year marked the first attempt to catalogue the dates reserved by the various activities, with the aim to rearrange them where necessary, in order to avoid conflicts which might not be for the best interests of the events scheduled. Throughout the year this program has been followed with some degree of faithfulness, but difficulties have arisen which might be avoided in the future. The main source of trouble is the fraternities, which have been continually infringing on the pre-arranged schedule. Could it not be stressed more effectively to the Interfraternity Conference that its frowning upon such infringement to a greater degree might be a valuable assistance in the carrying out of the fundamental purposes of the calendar?

Obviously, the function of the calendar can work for a well regulated and well balanced social and activity program, and the cooperation of every extra-curricular movement is especially essential. This schedule will be printed in the T. C. A. Handbook, following the example of this year, and with a responsible body behind it, may become a valuable service to the undergraduate body as a whole.

**Depression Not Cause For Graduates To Despair of Getting Job, Says Locke**

**Personality and Scholarship Important Factors In Getting Jobs**

"I am not inclined to be pessimistic," was the response of Colonel Frank L. Locke, '86, Personnel Director of the Division of Industrial Cooperation and Research, in reply to the question of whether it would be difficult for members of the graduating class to secure positions this spring.

"My impression is that while the depression will affect men finishing this year to some extent, there is no great cause for feeling discouraged about the near future," he continued in explaining his views on the subject.

"To be sure there are fewer companies seeking men now than there were at the same time last year, but this is because industrial firms took on their usual quotas of men last year and are lowering their quotas this year so that those already in their employ may be retained."

That there is always a position open for the man who is particularly

good in his chosen field was explained by Colonel Locke in this manner, "There are always coming to the office calls for men of exceptional ability and in some cases we are unable to fill the calls. It is the old story of the milk and cream. The cream always comes to the top."

Asked whether the much-discussed depression had an effect on the number of men, both graduating students and alumni, who seek employment through the office of the Personnel Director, he answered, "There are more men out of work just now because of the depression than has been the case for several years."

**This Summer Like Others**

Regarding the possibility that summer employment may be harder to find this year than in previous ones, Colonel Locke said that there would be some general difficulty in securing work because of the depression. This will be particularly felt in the industrial field, but in the field of summer work such as camps, vacation jobs, school work and casual employment, this summer probably will not be much different from any other.

When questioned on the point of whether a high academic standing was necessary to employment by an organization coming to the Institute for men, Colonel Locke said, "In the main, it is the men of exceptional ability who get the jobs. The best men can always find employment."

"The upper fifth or those graduating need not worry about getting work. Someone will always want them. In fact, there is very little doubt that members of this group will find jobs."

However, he was very emphatic in stating that academic standing alone was far from the determining factor. Personality and the first impression one makes on a prospective employer are extremely important. One's appearance, attitude, and the intangible things that go to make up personality are of vital importance. Initiative, observation, powers of expression, leadership, ability to work with others are important.

"I would have this carried to the students," he said, "In consideration of a man's ability and worth, academic standing and personality are so interrelated that they can't well be separated."

**Responsibility Essential**

"The important thing is a development of self, realization of a sense of responsibility for one's own career. Success is made from what a man gains from his own efforts rather than from what professors and instructors have him memorize. A man should make his own career."

In explaining this last statement he said that it is not what one is forced to do but rather what one does on his own and what he forces himself to do that develops in him those qualities which are required for success.

**Activities Have Potential Value**

In connection with doing work in addition to that required by the professors and instructors, Colonel Locke was asked whether he considered extra-curricular activities of any value. "I can see the possibilities of extra-curricular work," he said, "They have a potential value, for they offer an opportunity for a man to develop himself."

"Merely going out for an activity is not enough in itself, however. A

man must put some effort into it. Whether a man has done good work or not will determine the value of such work in developing him."

Then, offering the warning that has been given by several other members of the Institute staff, Colonel Locke said that one must not overdo the matter of activities.

**Relation Valuable**

The real value in extra-curricular work awaits, as he expressed it "the fellow who goes out and does some worthwhile work, who sees something in it, and who regards it as a part of his experience and relates it to his academic work."

"Extra-curricular activities offer great opportunity to connect practical work with academic training, and this is true to a great extent here at the Institute."

When asked to explain how such work could be connected to scholastic training, he explained that athletic activities are under the direction of the medical department, that activities are tied up with the alumni through the Alumni Council and Advisory Board and that the faculty shows great interest in the professional societies of the various departments.

**Activity-Faculty Relations Good**

"There is a feeling existing between the instructing staff and the student activities that carries with it the spirit of 'glad to help.' It is an intangible something to be sure, but nevertheless something real."

The Division of Industrial Cooperation and Research of which Colonel Locke is the Personal Director assists Heads of Departments in arranging interviews between representatives of organizations seeking men and the members of the graduating class, and maintains a file of Technology graduates and their records after graduation. Applications from corporations for men of peculiar abilities are handled through this office, which through its files is able to recommend men qualified for the positions.

**THE OPEN FORUM**

**Editor THE TECH:**

The purpose of this letter is not so much to defend Tech co-eds as to suggest a possible point of view which these much discussed co-eds may entertain towards Tech men. In a recent issue of THE TECH, there appeared an article which contained a brief discussion on the opinion which Tech men have of the Institute co-eds. "They (the co-eds) aren't interested in men," remarked one Sophomore. I would like to modify that statement. It should read, "They aren't interested in Tech men." Whether we like it or not, the fact remains: we do not measure up to the standards set by these co-eds. There is a slight tinge of disdain in their attitude. Some of them are inclined to look down upon us as "kids." Possibly they prefer the more sophisticated Harvard man. Possibly it is because some of the co-eds are a bit older than most of us that they regard us with an attitude often verging on condescension. But be the cause as it may, the fact remains that we do not find very great favor in the eyes of our female co-students.

Strange though it may seem, the indifference with which the co-eds are prone to view us is a source of concern to more than one undergraduate, despite the fiery invectives which are so often heard against the co-eds and all about them. There is no getting away from the fact that this indifference has managed to get under the male skin. And the deeper this barb of indifference penetrates, the more the male strives to overcome it. And having conquered, he hurries to report his conquest to his fellow classmates, who mock and sneer and are outwardly contemptuous, though at heart they all envy him.

There is no exaggeration in these statements. As a freshman, I had often had the experience of listening to a classmate describe how, by masterful campaigning and artful diplomacy, he had achieved the unachievable, a "date" with one of the co-eds. Afterwards, I was compelled to listen to a detailed description of each intimate moment, said description being made vivid by gesture and simile, of that consummate achievement, the "date." And now, among the supposedly more sophisticated Sophomores, and even the worldly-wise and sophisticated Juniors and Seniors, I find the battle still raging, female indifference opposed to male perseverance.

I was rather amused to hear an enterprising but apparently unsuccessful Junior relate the sad and pitiable tale of his failure. He had approached one of the more attractive co-eds, and, having introduced himself, had offered to devote one whole evening of his valuable time to a promotion of a better understanding between the young lady involved and himself. The young lady, however, declined his very generous offer and informed him, very sweetly, of course, that an evening of solitude and repose was much more to her liking than one devoted to the promotion of a better relationship between ambitious young Juniors and herself.

No doubt, the co-eds will prepare a reply to the article to which this letter has reference. It is also possible that they will not even deign to reply. But whether they do or not, the Tech man who observes the co-eds of M. I. T. and, having observed, would find them wanting, would do well to remember that these same much-criticized co-eds also have opinions, also have standards. Otherwise, he will find his predicament very analogous to that of the gentleman who began to throw stones, only to find that he was completely surrounded by glass walls.

Harry M. Rosen, '33.

**A Convenient Place for Dorm Men With Particular Appetites**  
**Lydia Lee—Luncheon**  
 135 Massachusetts Ave.  
 Open 7:30 A. M.—3:00 P. M.  
 Opposite Aeronautical Laboratory

**WINTER SPORTS OUTING**  
**SUNDAY, MARCH 15**  
 Round Trip \$2.75  
 Special train leaves North Station, Boston, 8:30 and Winchester 8:45 A. M. for Canaan, N.H. (Mt. Cardigan Region)  
 Over two feet of snow. Lounge car. Special \$1.00 Dinner and a hot coffee.  
 Returning leave Canaan 6 P. M. Due Winchester 8:45, Boston 9 P. M. Train parked at Canaan. No advance reservations necessary. For further information phone Haymarket 5970.  
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 New, softer, rougher worsteds and cheviots, imported and domestic.  
 New medium and light browns, new Cambridge and Battleship Grays—new blues—blue grays, gray blues—tans—exclusive patterns and shades almost without number.  
 Designed and tailored in our own Boston workrooms—incomparable in quality, style and value—  
 Suits—\$45 to \$55  
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## WRESTLERS MEET BROWN FOR LAST MATCH OF SEASON

Two Changes Made In Lineup  
On Account of Injuries to  
Regular Men

### PITBLADO'S LAST BOUT

Having finished the entire season of dual meets with a creditable record behind them, the members of both the Varsity and the freshman wrestling teams are slated to go to Providence tonight to compete in the New England Intercollegiate Wrestling Association Tournament. The matches will be held both tonight and tomorrow night, the finals starting at seven-thirty p. m. Saturday evening.

Two team members are absent from the lineup, one in the Varsity squad and the other from the freshman, on account of injuries. Shea, who has been wrestling in the 135-pound class, suffered a chest injury in his last meet, in addition to a bruised ear. At first, the rib seemed to bother him so much that there could be no possibility of his wrestling tonight, and when the doctor cleared that up, the ear became so bad that he is now in the hospital with it.

Captain Pittblado will be wrestling his last matches for the Institute as he is a Senior this year, and it is only by a decision of the doctor at the last minute that he will be competing. In the last meet, he tore a finger nail, and has not been able to engage in any actual scrimmaging since then. The finger is now reposing in a steel cast, and it is hoped that it will not bother him during the matches.

Men who win their matches in this tournament will go to Brown in Providence, to compete in the Nationals on March 27-28. The lineups for the two teams are as follows:

Freshmen	Varsity
Lem	118 Ripin
Sears	126 Van Buren
Perry	135 Loughman
Isbister	145 Pittblado
Poole	155 Vassalotti
McCaughan	165 Mostafa
Stewart	175 Kline
Prince	Heavy-weight Bailey

## COLLOQUIUM WILL DISCUSS TELEGRAPH

(Continued from Page One)  
governing the transmission of these impulses over conductors and a discussion of the various possible codes.

III. A study of the various methods and equipment employed for the transmission over conductors of these coded impulses.

- A. Single Current System.
- B. Duplex systems.
- D. Quadruplex systems.
- E. Carrier systems.
- F. Multiplex systems.
- G. Repeaters.

IV. A study of the various ways of obtaining line facilities together with a discussion of the characteristics of the facilities so obtained.

- A. Grounded vs. non-grounded circuits.
- B. Open-wire vs. cable circuits.
- C. Circuits providing Telephone and Telegraph channels.

V. A general discussion of the testing and patching facilities necessary for rendering commercial service.

- A. Distortion measurements.
- B. Testing facilities.
- C. Patching facilities.

VI. Telegraph central office arrangements.

- VII. Private wire telegraph service.
- VIII. Telephotography of facsimile telegraphy.

## Lacrosse Begins Year With Mass Meeting Monday

Seven Games on Schedule For  
Varsity—Freshmen To  
Play Four

Lacrosse will inaugurate its third season at Technology with a mass meeting Monday night at five o'clock in the Hangar Gym. This will be for both Varsity and freshmen candidates, with practice starting Tuesday.

Considerable amount of interest is expected in the sport this year as it will be the first season that lacrosse is a recognized Institute form of athletics. Through the efforts of Coach Saurwein and ex-Captain Kocher Lacrosse was designated as an official major sport by the M. I. T. A. A. Advisory Council last year at the end of the season. Letters were awarded to the Varsity members playing the required number of games, but no freshmen awards were made as they will be this year. It can also be substituted for P. T.

### Seven Games Scheduled

Besides this point, a larger number of games will be played by both the Varsity and freshmen this year. To date seven games have been scheduled for Varsity opponents, with an eighth possibility. Boston Lacrosse Club will play two of these games on the Coop Field. New Hampshire is also scheduled among these teams, this being the first time that the Wildcats and the Beavers have encountered in this old Indian sport.

Brown, Harvard, B. U. and Tufts are the other four teams, all of which were on the schedule last year. The first two scored victories over the Technology team, B. U. was tied, and

Tufts defeated. There is also a possibility of a game being played with St. John's as negotiations are being carried on now.

Freshmen will have four contests this season in contrast with only two played by last year's yearlings. Andover and Brown freshmen are again on the schedule, with Harvard and New Hampshire '34 as the two additional teams.

Boston Lacrosse Club will open the season April fourth and will continue on through the middle of May. The first freshman game will be on the eighteenth of the same month.

Complete schedule is as follows:

- April 4—Varsity vs. Boston Lacrosse Club, Coop Field.
- April 10—Varsity vs. Harvard, Cambridge.
- April 18—Varsity and freshmen vs. Brown-Providence.
- April 25—Varsity vs. Boston Lacrosse Club, Coop Field. Freshmen vs. Harvard freshmen, Cambridge.
- April 30—Varsity vs. B. U., Coop Field.
- May 2—Varsity and freshmen vs. New Hampshire, Durham, N. H.
- May 13—Varsity vs. Tufts, Medford.
- May 16—Freshmen vs. Andover, Coop Field.

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## OFFICIAL BULLETINS OF GENERAL INTEREST

**Physics and Physical Chemistry**  
**Harvard University and Massachusetts Institute of Technology**  
Friday, March 13, 4:00 P.M., Room 4-270  
Friday, March 13, 4:30 P.M., 110 Pierce Hall,  
Harvard Engineering School

At M. I. T., Professor E. U. Condon, Department of Physics, Princeton University, will deliver a lecture on "Application of the Theory of Complex Spectra." This lecture will replace the seminar and colloquium.

At Harvard, Professor J. W. Williams, Department of Chemistry, University of Wisconsin, will deliver his fifth and last lecture on "Recent Electric Constant and Conductance Theory and its Relation to the Problem of Dielectric Loss."

Open to students and members of the instructing staff.

**Popular Science Lecture** Professor B. E. Warren, Sc.D.  
Sunday, March 15, 4 P.M., Room 10-250

Professor Warren, Assistant Professor of Physics, will be the speaker at the Popular Science Lecture which is under the auspices of the Society of Arts. The subject of his lecture will be "X-Rays and the Structure of Crystals."

**Building Construction** Mr. Thomas F. McSweeney '16  
Monday, March 16, 10:00 A.M., Room 1-134

A course of illustrated lectures on "The History of the Art of Building" is being given under the auspices of the Department of Building Construction during the second term by Mr. Thomas F. McSweeney '16, on Mondays from 10:00 A.M. to 12:00 M.

Open to students and members of the instructing staff.

**Colloquium** Electrical Engineering Department  
Monday, March 16 and Tuesday, March 17, 2:00 P.M.  
Room 10-275

Mr. R. D. Parker, Telephone Equipment Development Engineer, American Telephone and Telegraph Company, "Modern Telegraphy and its Trend."

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

**Welding** Mr. Peter P. Alexander  
Monday, March 16, 4:00 P.M., Room 4-156

A series of lectures on "The Metallurgy of Welding and Its Industrial Application" is being given under the auspices of the Department of Mining Engineering and Metallurgy on Mondays, February 16-May 25, inclusive, by Peter P. Alexander, Research Engineer, Thomson Research Laboratory, General Electric Company.

Open to students and members of the instructing staff.

## CALENDAR

### Friday, March 13

5:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial.  
9:00 P.M.—Dorm Dance, Main Hall, Walker Memorial.

### Monday, March 16

5:00 P.M.—Lacrosse meeting, Hangar Gym.  
5:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial.  
6:00 P.M.—Basketball dinner meeting, North Hall, Walker Memorial.  
6:00 P.M.—Alpha Phi Delta meeting, Faculty Dining Room, Walker Memorial.  
7:45 P.M.—Tech Ramblers, East Lounge, Walker Memorial.

### Infirmiry List

Charles C. Bell '33.  
Gorham K. Crosby '34.  
Edward Gamble, Employee.  
Douglas F. Illian '31.  
Howard H. Inray, Jr., '32.  
Charles F. Payne '33.  
Lawrence White, Employee.  
At Brooks Hospital:—  
James H. Burnham '34.

### LACROSSE

There will be a meeting of all men interested in Lacrosse at 5 p. m. on Monday, March 16, in the Hangar Gym. Spring practice will start the following day.

### NOTICE

Books and pamphlets written by Sherwood Eddy are available for the last time today in the T. C. A. office as they are being sent back to Mr. Eddy tomorrow.

### GYMNASTS TRAVEL TO NAVY FOR DUAL MEET

At 10 o'clock tonight the Technology gymnasts will leave for Annapolis where they will engage the Navy team, one which has not as yet lost a meet, beating such teams as Princeton and N. Y. U. This is the last dual meet of the season. The intercollegiate meet at Temple will follow next Saturday to which only four of the men will go.

The entries are: High Bar, Getting, Freeman; Side horse, Captain Knapp, Getting, Lawsine; Parallel Bars, Ericson, Treadwell; Rope Climb, Knapp, Ericson; Tumbling, Abbott, Freeman; Flying Rings, Lawsine, Treadwell.

The University of Southern California, a Methodist institution, was founded by a Catholic, a Jew and an Episcopalian. \* \* \*

A road house near the University of Colorado has arranged for students to ride in taxis free of charge to dances there.



### Over the Teacups

of a Wednesday or Saturday afternoon, you may listen and dance to the delightful music of Meyer Davis' Le Paradis Band in the

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of the

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### Business Lecture Series By Noted Men Begins Today

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Speak Under Auspices of  
Course XV

(Continued from Page One)  
the various plantations. This work, in addition to the supervision of underbrushing work incident to the development of new farms, required a thorough knowledge of road, bridge, and tramway construction and the laying of drains.

In 1907 the company considered further expansion in other tropical countries, and Mr. Cutter was assigned to inspection and exploration work in the Republic of Nicaragua in search of suitable land for banana cultivation. Upon completion of this work he was assigned to organize and lay the foundation for a new Division in Guatemala. This work entailed selection of land, the laying out and developing of plantations on land covered by dense tropical growth, the construction of roads, bridges and tramways, and dwellings for employes, and the establishment of merchandise and medical departments for the care of the needs of the employes of the Division.

#### Made General Manager

In September, 1915, Mr. Cutter's appointment to the position of General Manager of the Central and South American Department placed the entire tropical investment of the United Fruit Company under his direct management. In 1916, his appointment as General Manager of Tropical Banana Divisions gave him, in addition to the above, general jurisdiction over the company's Division in Jamaica, B. W. I.

Mr. Cutter in October, 1917, became Vice-President in Charge of Tropical Divisions, controlling the entire tropical investment of the United Fruit Company in both the sugar divisions

in Cuba and the banana divisions in Central and South America and the West Indies. These positions closely associated him with the late President of the company, Mr. Andrew W. Preston, until the latter's death in September, 1924, when Mr. Cutter succeeded him to this position. The United Fruit Company with its 70,000 employes, its 2,800,000 acres of land holdings, its 1500 miles of railroads, and its great fleet of ships, stands today as the largest agricultural company in the world. Mr. Cutter, in this first industrial address, brings to Technology students the counsel of a chief executive of brilliant achievements in the field of business administration.

■■■  
"My Religion and Industry"  
RICHARD ROBERTS  
of Toronto  
This Sunday, March 15  
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invited.  
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