

## SALEM HIGH WINS INTERSCHOLASTIC CAGE TOURNEY

Gains Championship of Eastern Massachusetts Through Three Victories

### PLAY GAMES IN HANGAR

Tourney Run By M. I. T. A. A.  
Under The Direction of  
H. P. McCarthy

Friday and Saturday in the Hangar gym the Interscholastic Basketball Elimination Tournament under the auspices of the M. I. T. A. A. was held here for the first time. Salem High School won the finals, in winning every one of the three games played. Friday afternoon in the first round Brockton High defeated New Bedford high while Salem won from Lowell. Finishing the initial round Friday evening, New Bedford Vocational defeated Plymouth High and Medford squeezed out a victory from Attleboro.

The second round or semi-finals were held Saturday afternoon in which Salem triumphed over Brockton and Medford nosed out New Bedford Vocational by a mere point.

Final Score 34-12

The finals took place immediately following the Varsity game with Holy Cross, where Salem won the undisputed possession of leadership in Eastern Massachusetts. The final score of the final game was 34-12. The Witch City lads demonstrated their superiority over the Medfordites in every department of the game by which they easily won the title.

Following the last game the Salem boys were presented with gold basketball charms emblematic of the championship. The Medfordites were presented with similar silver basketballs as their reward for second place. Dr. Allen W. Rowe '01, secretary of the Advisory Council of the M. I. T. A. A., made the presentations and commented on the remarkable spirit and support afforded the respective teams.

**LACK OF INTEREST IN  
SOPH DANCE SHOWN**  
Upperclassmen in Majority  
At Copley Plaza Friday

Surprise and regret at the lack of interest shown by the Sophomores in their coming Midwinter Dance is expressed by their class officers. The affair is this Friday, with dancing from 9 until 1 o'clock, at the Swiss Room of the Copley Plaza Hotel.

A statement was given out by the class officers that all classes are welcome to the dance but it is supposed to be a Sophomore function. So far the upper classmen have shown considerably more interest in the affair than the Sophomores themselves have. A good many more tickets must be sold to make it a financial success, and the officers are trying to impress the class with the fact that if they do not show more class spirit, the affair will cause a deficit.

If enough tickets are sold to cover the cost of the orchestra and hall, favors or specialties of some sort will be arranged for. Unless the fixed costs are covered shortly, it will be too late to make any arrangements for favors. Tickets are being sold in most of the fraternity houses and in the main corridor from 12 until 2 o'clock for \$2.50 a couple.

### CHESS EXPERT WINS IN EXHIBITION PLAY

Saturday afternoon W. Perkins, chess expert from New York, played fifteen men simultaneously in West Lounge, Walker. After four hours of continuous playing he finished with a score of fourteen won to one lost. Philip Franklin, professor of Mathematics was the lone victor.

Mr. Perkins is considered the strongest chess player in Boston today. At present, he is delivering a series of lectures about chess at the Boston Chess Club and in his spare time is giving simultaneous chess exhibitions.

### Sports Summary For The Week-End

VARSITY		
Basketball	Holy Cross, 31	M. I. T., 22
Boxing	M. I. T., 4	New Hampshire, 2
Fencing	West Point, 7	M. I. T., 6
Gym	Pennsylvania, 42	M. I. T., 12
Swimming	New England Intercollegiates—Dartmouth 37, Brown 16, Williams 14, Wesleyan 5, Amherst 3, M. I. T. 1.	
Wrestling	M. I. T., 15	Stevens, 9

  

FRESHMAN		
Basketball	M. I. T., 35	Brown, 28
Fencing	English High, 8	M. I. T. 1
Swimming	Newton High, 54	M. I. T. 14

### Preparations For Elaborate Circus Are Under Way

#### Armory Expected to be Scene Of Hilarious Fun-Fest on April Fools' Night

Plans for the 1926 Technology Circus should be well under way by the end of this week, with a meeting of the Circus Committee scheduled for tomorrow and most of the fraternities and activities planning on some kind of stunt or exhibit to make this the most hilarious outlet for pent-up steam ever accomplished in the annals of Technology.

Several of the activities have already signified their intention of putting on some kind of stunt and with the very short time left in which to complete arrangements it is necessary for all entrants to start things going at once.

#### Probably in Armory

Although the Cambridge Armory has not yet been acquired in which to stage the event, inasmuch as that is the logical place to hold it, an effort will be made to obtain the Armory for April 1.

Last year the dormitories combined in one group to put on their exhibition but it has not been decided as yet whether the same plan will be carried out again or not. It is possible that each hall may put on a separate stunt, or that two or more halls may combine.

In all cases, those who plan on staging some act, or having a booth should get in touch with members of the Committee. Dwight K. Luster '26, is in charge of all side shows and booths and ideas or plans should be directed to him. Ring Stunts are under the direction of C. Wesley Meytrott '27.

### Dr. Keyes Discusses Modification of Theory of Gases at Chemists Meeting

#### Value of Theoretical Research Is Greatest, Says Noted Chemist

Professor Frederick G. Keyes, head of the Department of Chemistry, and Dr. Benjamin T. Brooks, consulting chemist on the staff of Arthur D. Little, Inc., were the speakers at a meeting of the Northeastern Section of the American Chemical Society in room 10-250 Friday evening.

In his paper, "The Relation of Research to the Petroleum Industry," Dr. Brooks said that the chemist has not had a chance in this industry. He cited the example of the development of the cracking process of separating petroleum products, while the vacuum process was recommended by chemists as long ago as 1910. Vacuum distillation is now being carried on as low as three millimeters of mercury. Figures showing that distillation at this pressure extracted 94 per cent of the heavy oils as compared with about 50 per cent by the cracking process were given.

Dr. Brooks said that the value of abstract, disinterested research was greater in the long run than "pot-boiling" or specific research. The possibilities of establishing a fine chemical industry analogous to the coal tar

### INCREASE OF FOOD SUPPLY DISCUSSED BY DR. PRESCOTT

#### Scientific Improvement of Production Necessary Within a Century

#### RECOMMENDS NEW MEATS

"Cattle will be raised almost solely for dairy products and not for meat supply within a few decades," prophesied Dr. Samuel C. Prescott '94, who delivered the concluding popular science lecture of the year yesterday afternoon in room 10-250.

"The World's Food Supply—Its Sources and Preservation" was his subject and in his talk he outlined the belief that there must be a more consistent application of science to agriculture and to food production in general that the increasing population of the world may not grow faster than the food supply.

180,000,000 is the estimated population of the United States in the year 2000 A.D. as figured by the Bureau of Census, a naturally conservative organization. The saturation point with our present food supply is but 140,000,000 and drastic steps must therefore be taken.

#### Reindeer as Meat

Measures such as the one prophesied about our meat supply will be used. As a substitute for our present source of meat Dr. Prescott offers the reindeer of the frozen North and the goats and similar smaller animals of the tropics.

William F. Wells '09, Biologist for the New York State Conservation Commission, has already produced a method for artificial propagation of the oyster whereby the production of this delicacy may become large and profitable. A film illustrated this field of endeavor.

Conservation of the food once it is produced is another problem since food is not consumed as soon as obtained.

### IMPROVEMENTS MADE ON DISCHARGE FLUME

Alterations are being completed on the flume in building 3, in the form of a by-pass so that discharge water need not be run through the Smith reaction water wheel connected at the bottom of the flume.

Heretofore, it has been necessary for an attendant to supervise the operation of the water wheel, though it might not have been a part of the experiment.

Under the direction of Professor Jesse J. Eames '02, four holes were cut by oxyacetylene torch, and four nipples welded in place by arc welding. Ten inch valves and pipes are attached to them and it is now possible for experiments to be performed without the necessity of running the wheel.

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industry depends principally, said Dr. Brooks, on the unsaturated hydrocarbons. This, he said, will probably never reach the importance of the fuel uses of petroleum.

#### Molecule Not Smooth

Our ideas concerning the behavior of gases from the point of view of molecular kinetics was discussed by Dr. Keyes in his paper, "The Importance to Chemical Theory of a Knowledge of the Physical Properties of Substances." All the relationships of Physical Chemistry are developed under the assumption of molecules of a perfect gas like billiard balls. We now know that the outer surface of molecules is quite different, consisting of attractions and repulsions of electrons revolving in orbits.

Dr. Keyes has set himself the task of modifying these gas laws. He considers Van der Waal's factor is a real property of the atoms of gases and showed that by applying some new considerations to some simple gases, reasonably close correspondence was obtained between measured and calculated values.

The importance of properties like electric moment and dielectric constant was stressed and a number of slides illustrating the effect of his modification of gas laws from those of perfect gases were shown.

### WORK PROGRESSING ON NEW SONG BOOK

According to the committee the song book is expected to be out before Commencement. Each fraternity will have one of its songs in the publication.

Eben B. Haskell '26 of the committee states that, so far, many of the houses have sent in their contributions but there are still several outstanding. In a canvass among the Alumni it was shown that the book will satisfy a need long-felt at Technology. It will be composed of about twenty-five Technology numbers including some recent Tech Show successes and several of O. B. Dennison's hits.

Many well known college songs of Harvard, Yale, Dartmouth, Wesleyan and other institutions will also appear. In addition, a group of old time favorites will be included such as "The Road to Mandalay" and "Honey That I Loved so Well." Important announcements about the book will appear later.

### Darrow Delivers Second Talk On Atomic Theories

#### Explains Facts on Which All Contemporary Atomic Theory Is Based

Dr. Karl K. Darrow delivered the second of his series of three lectures on atomic theory Friday afternoon in room 10-275. He reviewed the ground covered in the previous lecture, and explained the experimental ion.

He outlined our knowledge of this ion, emphasizing the difference between it and the theoretical ion of which there are many varieties, each used to explain different observed properties. From study of the ions of neon, J. J. Thomson found that neon had two atomic weights and therefore it was concluded that the atomic weight is not the independent variable of which all properties are functions.

Mosely, the young British scientist whose life was cut short by the war in experimentation with X-ray spectra of elements found that the square root of the X-ray frequency of an element varied linearly along the periodic table, putting in their proper places those elements which could not be placed by atomic weight. He assigned to each element an atomic number and it is now held that these numbers represent the independent variable, the positive charge on the nucleus.

Just as most of the theorizing about the electron has its basis in the measured values of "e" over "m" so the theoretical atom incorporates in itself the experimental atom which has this varying charge on the nucleus according to its position in the Periodic Table.

Dr. Darrow will conclude his series Friday at 2 o'clock in room 10-275 and any member of the student body or staff may attend.

### CEMENT LECTURE SERIES ARRANGED

#### To Discuss Concrete Mixes In Series of Addresses At Institute

Another series of lecture demonstrations on the proportioning of concrete mixes is now being conducted in room 3-270 every Tuesday night at 6 o'clock. These lectures are being given by the Portland Cement Association and will run until March 30, inclusive, with the final meeting on April 27.

Due to a popular demand from the building contractors of Boston, W. C. Voss, who delivered the first series that was given during October of last year, has consented to lecture on the same subject and on topics allied to it. It is the intention at these meetings to study from a practical point of view the questions of water-cement ratio, fineness modulus, strengths and job control through actual concrete mixers from which test cylinders will be made and comprehensive failures measured. All the details of the bulking of sand, moisture in sand, inundation methods, aggregate sizes, and scientific mix designs will be discussed in detail. Demonstrations will accompany each address to point out various important facts.

### M. I. T.-DARTMOUTH MUSICAL CONCERT WELL ATTENDED

Dancing Follows Program Of  
Music Presented by  
Combined Clubs

### BANJO DUET FEATURES

Tunesters, Barbary Coast Band  
And Techtonians Furnish  
Dance Music

Performing jointly with the Dartmouth Instrumental Club for the third successive year, the Combined Musical Clubs of M. I. T. offered representative numbers from each of the clubs in the Louis XIV Ballroom of the Somerset last Friday evening. A large crowd was present at the start of the program and was augmented by late arrivals until the start of the dance program when the ballroom was crowded to the limit. Although many Dartmouth men were in attendance, the audience was largely made up of Technology students and friends.

It is not possible to say that any one number on the program was better than the others, but those numbers which were the best received included "June," by Tschaikowsky, rendered by the Dartmouth Instrumental Club, and which called for an encore number, selections by the M. I. T. Glee Club Quartette; and a specialty banjo duet act put on by O. L. Barker and F. D. Thompson of Dartmouth.

#### Banjo Lights Well Received

To start the program two selections were given by the Dartmouth Instrumental Club followed by three songs from the M. I. T. Glee Club. The third number was a Xylophone duet by N. R. Dowd and W. C. French, Dartmouth, and was followed by popular medleys rendered by the Technology Banjo Club. As usual, the banjo lights created much favorable comment.

Sandwiched between this act and (Continued on page 4)

### REFRIGERATION LAB IS BEING EQUIPPED

#### To Be Employed in Special Option In Course II

For the past three years, the Refrigeration Laboratory in Building 46 has been in the process of development. A number of commercial and domestic machines comprise the equipment, and the most recent addition to the equipment was in the form of three domestic type Servel-refrigerators.

One of these machines is a complete home outfit, except that it is equipped with glass panels so that observation may be made during experiments. There is no necessity for test wells for thermometers. Another machine is taken down so that the parts can be studied and a third unit is set up without the cabinet so that it can be used for any experimental work.

There are several Brunswick ice machines, ranging in capacity from one to five tons, also a 500 pound Litman.

The laboratory is used for the study of the elements of refrigeration and likely will be used for research work. Professor William H. Jones '09, of the Mechanical Engineering Department is in charge of the laboratory work and in the installation of the equipment. The course has been established but a year, the first classes being held at the beginning of the second term, 1925.

### CALENDAR

Monday, March 15  
1:00—Aero Society Man. Board meeting, room 3-312.

5:00—Senior Week Committee meeting, committee room.

Tuesday, March 16

7:00—M. E. Society meeting, North Hall, Walker.

5:00—Circus Committee meeting, West Lounge, Walker.

5:00—T. E. N. Board meeting, Committee room.

Wednesday, March 17

5:00—Mass Meeting of entire Sophomore class, room 5-320.

7:00—Alpha Chi Sigma Smoker, Faculty dining room.

Thursday, March 18

8:00—Memorial Society meeting, North Hall, Walker.

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Continuous  
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for 45 years



Official News  
Organ of the  
Undergraduates  
of Technology

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Monday, March 15, 1926

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News and Editorial—Room 3, Walker  
Memorial, Telephone, Univ. 7029  
Business—Room 302, Walker Memorial  
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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

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### WE BARBARIANS

WE WERE considerably amused at a letter we received from a publisher in which the writer seemed surprised that a book dealing with human emotions and feelings should have an appeal to anyone attending a technical school. The letter was friendly and sympathetic. It expressed such a spirit of compassionate tolerance as one of us might assume in trying to explain a few of the more common mysteries of nature to an innocent esthete—why his Ford wouldn't start with the brakes applied or why lighted cigars are dangerous in the vicinity of gasoline tanks.

To those who have had the advantages of a wisely directed four-year communion with formal art and literature—to those who take the time from the bare business of earning a living to enjoy the delicate hidden beauty of life, we at Technology must seem to be a strange group. They must picture a hard-hearted crew of earth worms grubbing for naked facts amid dirt and grime and strange unnamable odors from chemicals with even stranger names.

It is enough to say that the average student at the Institute looks upon himself in somewhat a different light. If he ever ponders over what good he is to the world and where his niche was cut for him, he will probably place himself as an all-around man; just enough of the ultra-collegia to avoid the stigma of "grind"; just enough interest in the arts and just enough knowledge of bridge to permit him to "get by" at Wellesley, and just enough study to allow him to "get by" his professors. He considers himself the happy medium between what the esthetes think of him and what he thinks of the esthetes.

Obviously, there is something wrong with our present hit-or-miss method of informing the world what life at Technology is like. While it is decidedly unconventional for barbarians to send missionaries to Rome, we might equip a propagandist with a stereopticon, a parcel of slides, and a speech and then send him out into the world to show outsiders that we don't carry pipe wrenches to class and that we don't start and stop work on signal from a whistle.

### BURLESQUE

FOR little or no reason it is commonly supposed that burlesque is the most evil of the popular forms of stage entertainment. At times the theatre, movies, and vaudeville are condemned, but surely these receive a greater measure of approval. However, the burlesque is always a perpetual and unmitigated evil, a curse to any community, at least so say the reformers. Consequently, there prevails a belief that burlesque is a pernicious institution that has no compensatory virtues. This idea is largely erroneous.

The burlesque show is not entirely evil. Strangely enough, there are some forced "goody-goody" shows on the various circuits and there are many more disgusting vaudeville acts. But a vulgar vaudeville act is usually excusable, because it occupies only 10 or 12 minutes of the entire program and was placed before an unsuspecting audience. However, no one can say that the tone of many burlesque shows is not considerably above that of the multitude of second rate vaudeville performances.

Placing the morality of either of the shows aside, the burlesque has still a virtue not possessed by the vaudeville performances. Anyone can memorize a few clever and salacious remarks to last a few minutes, or learn a few songs that someone else has written. On the other hand, it takes a comparatively capable entertainer to last out the duration of a burlesque show.

More than a few notables of the modern stage received their early training in burlesque. It is the development of creative power, so desirable in all branches of stage work, that the burlesque circuits offer to all classes of performers. The mere statement that most burlesque performers later graduate into the higher type of theatre entertainers brings up the question whether it is not true that a simple burlesque being one of the lower forms of humor attracts the lower classes of the theatre populus. Consequently, the burlesque houses that a decade ago had attracted crowds equal to that of the present musical comedies have been forced to retreat into sections of the city where they are able to attract larger audiences.

### THE OPEN FORUM

#### MORE ON THE STUDENT TAX

(Following is the reply of the Athletic Association to the two communications published in this column last Friday morning. The Editor welcomes further discussion on the Student Tax in this column.—Ed.)

To the Editor:

Replying to the communications in your "Open Forum" column of March 12th regarding the expenditure of funds to be possibly obtained by the increase in the Student Tax for the Athletic Association, it can be definitely stated that there is no reason to believe that the present policy of "athletics for the mass" will become a side issue. In fact, on the contrary, the main purpose of the increase has for its incentive the desire to alter existing conditions in Tech sports that hamper the handling of students seeking recreation.

Current expenses are increasing every year due to more men participating on the various squads, and combined with low college enrollment, financial stability is not what it should be.

#### Equipment Needed for More Men

New equipment, as well as the upkeep, is also imperative. Anyone connected with Crew last season will acknowledge the inadequacy of facilities. Most Tech men with life enough to try to take advantage of their spare moments, cannot, and are advised not to spend two hours afternoons, trying to procure apparatus on which to exercise sufficiently. Does one realize that last year one hundred and sixty men were either turned away from sports or else became discouraged because of the lack of equipment? And that does not include the number eliminated by the abandon of the Interfraternity Rowing Tournament for the same reason last spring! The service that the A. A. is giving is evidently far from satisfactory.

Concerning team trips, there is no intention existing to create opportunities for the members to be away more than usual. In fact the tendency will be to readjust the schedules of the teams in order to equalize the out-of-town contests. On the other hand, too much stress can not be given the subject of obtaining means whereby Technology can be represented by strong and deserving groups in Intercollegiate meets.

(Signed) K. S. Lord '26,  
(President, M. I. T. Athletic Ass'n.)

### Intercollegiates

The *Tower*, the monthly magazine of Dartmouth, has recently attacked *The Dartmouth*, the college daily. *The Tower* was criticized for the lack of editorial policy by a communication and it attempted to justify itself by claiming that *The Dartmouth* was a greater offender in that respect. Furthermore it claimed that a definite policy was too limiting for their type of publication. *The Dartmouth*, however, feels that they have undertaken an exceptionally definite policy of constructive criticism this year.

\* \* \* \* \*

The University of Kansas has the distinction of having the first honorary psychology fraternity which is called Beta Chi Sigma. The Society is often addressed by various prominent psychologists, and the reports of the American Psychological Association are given which show the novel and beneficial psychological methods now being put into practice.

\* \* \* \* \*

At Williams the slogan "Athletics for All" is reaping ample success as is demonstrated by the recent action of the Williams Athletic Council when it awarded athletic insignia for participation in the various fall sports to 143 men or approximately twenty per cent of the college body.

\* \* \* \* \*

Dean Bowman of Mount Union College has recently collected data on the comparative cost of college education of the present and fifty years ago. In 1876 the average cost for a year including board and room was less than two hundred dollars, and was practically the same in all the Eastern and middle western institutions. At present the average cost varies with the college from five to ten times that sum.

\* \* \* \* \*

Dr. W. E. Wickham, of the Carnegie Foundation, who has been studying engineering schools throughout this country states that of the fathers of engineering students, approximately one-eighth hold college degrees. About forty per cent have high school education while the remaining forty per cent have educations extending through grammar school or less. The figures for the mothers are substantially the same although there are fewer college graduates and more high school graduates. This is an index of the rapidly rising tide of higher education and shows that engineering schools should supply some of the background which has been missing in the homes.

### —THE TECH BOOK LIST—

#### FOR SPRING FEVER

THE SUNGAZERS, a novel by H. H. Knibbs. Boston: Houghton-Mifflin Co. \$2.00

Everyone is anxiously awaiting the coming of spring; chronic spring fever is beginning to put in appearance. To any who would pass a few delightful hours relieving the monotony of the windy days of March, we heartily recommend the reading of *The Sun-gazers*. It is the story of two hoboes and their adventures in the great outdoors, equipped only with a blanket and a can for each of them.

A happier combination than Bill Morningstar and Jinglebob is hard to imagine. The narrative is carried along much of the time in the whimsical, yet expressive dialect of the knights of the road; and from the time when Bill Morningstar first meets his poetic pal to the very end, the story is overflowing with rollicking humor, and side-splitting situations, sound philosophy, and wonderful characterizations.

Bill has the true artistic temperament, and to hear him narrate how he traveled light three times around the world is enough to make the most sober-minded person want to roll up a blanket and "hit the trail." And when Jinglebob injects his poetic descriptions into an already beautiful picture we can't help admiring with them the beautiful things in life.

Commenting upon our request for the privilege of reviewing Marie Conway Oemler's *Shepherds*, the Century Company says that it cannot see just what Tech students would do with the book inasmuch as "it is a sentimental comedy, full of pathos and romance, tenderness and affection and other minor vices which are not ordinarily a part of the equipment of engineers in the 'egg.'" In spite of their fears, they have sent us the book and review will appear next Monday.

### Mining Engineer Is Sure of Position After His Graduation From Institute

(This article is the third of a series outlining the work of each of the departments of instruction at Technology. While the series was planned primarily for the information of freshmen, our readers outside the Institute will find the series informative. Other courses will be discussed in later issues.—Ed.)

By Prof. Charles E. Locke

What is the present field for the mining engineer? Some people have felt that with the admitted decrease in the number of mines in operation and with the certainty that as time goes on the chances of discovering new mines will grow less and less, the field for the mining engineer would become more and more limited, but such people have failed to consider the subject fully. Mines may become less in number, but mineral production is bound to increase. Larger deposits of lower grade, operated on a basis similar to manufacturing, will supply our future needs. These will involve problems calling for many technically trained men for operating and similar men for research in order that the enterprises may function in the most efficient and economical manner. This will be a marked contrast from the old time small mine which either ran with only one young technically trained man on the job who did the combined work of engineering and assaying, or else felt that even this one man was an extravagance and did without him altogether.

\* \* \* \* \*

The old engineer looked forward to the goal of independent consulting engineer where clients would come to his New York office and pay (Continued on Page 4)

#### HISTORICAL ROMANCE

THE ALTAR OF THE LEGION: A novel by Farnham Bishop and Arthur Gilchrist Brodeur. Boston: Little, Brown and Company. \$2.00.

Those who like historical romances will find in *The Altar of the Legion*, a vivid treatment of a particularly interesting, though obscure legend. It is a tale of the struggles of the Britons against the invading Saxons, before the latter had finally conquered the land and begun the foundation of the present English speaking races.

*The Altar of the Legion* is another name for *Lyonesse*, that fabled Roman colony situated in the extreme south western part of England between Land's End and the Scilly Isles, on a peninsula that has since been buried under the waves. This land of Roman and Christian culture, its people half Roman, half Briton, its great city Bellerium abounding in marble palaces and mighty edifices, is indeed a subject that the authors make much of.

The tragic events of those troubled times are related in a most stirring manner. The authors seem to have specialized in battles, and probably one third of the book is devoted to their description. But, even so, descriptions are not often tedious. The death of King Owain and the annihilation of his Welshmen by the barbarous Saxons is a scene not easily forgotten.

There is a hero and heroine in the story of course, but oddly enough, they do not even fall in love with each other. The emphasis that the authors put on relating the fate of armies, and the vicissitudes of kingdoms, does not leave them much time to discuss the personalities that appear. This story seems to be the first attempt of the authors at writing fiction, and consequently various crudities are apparent in its execution. It is a book that will appeal to those who like historical romance, but to others not so favored, we fear it will prove rather uninteresting.



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### Play Directory

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PLYMOUTH: "The Judge's Husband."—With William Hodge at his best.

REPERTORY: "Minick."—From Edna Ferber's Story.

SHUBERT: "Naughty Riquette."—In its last week.

TREMONT: "Ladies for the Evening."—A David Belasco production.

WILBUR: "Aloma of the South Seas."—Well acted.

# ENGINEER BOXERS DEFEAT NEW HAMPSHIRE

## Beaver Ring Men Overcome New Hampshire Boxers By 4-2 Score In Close Contest

Cardinal and Gray Spur in Second Half Nearly Evens Count

Holding a return match with the University of New Hampshire the Engineers reversed the former decision, when they outpointed the upstagers by a 4-2 score. The feature bout of the meet was between Kwaak of the Institute and Riccordi of New Hampshire. After three grueling rounds the Cambridge boxer was declared a winner.

In the one hundred twenty five pound class, Captain Epstein secured a decision over Boyd. Blackwood in the one hundred thirty fives was the other Technology winner outpointing his opponent Higgins. Peatfield was awarded his match by default. The contestants were very evenly matched in most cases and some very good boxing was shown throughout.

In spite of the claims that the Phi Beta Kappa societies contain merely grinds, a survey of the new members elected at Dartmouth this year shows that practically all the campus activities are represented. There are also members of the athletic teams as well as two athletic managers.

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## FENCERS LOSE TO WEST POINT TEAM

Joe Levis Continues His String Of Consecutive Victories by Taking All Bouts

West Point put a thorn in the side of Technology's fencing team Saturday, defeating it by the score of 7 to 6. As the close score points out, the match was no walk-over. The Beavers had the advantage of their opponents in the epee matches, but were decisively outpointed in the foils. By this victory the Army accomplished a feat performed this year only by her rivals the Navy. Both the cadets and the midshipmen are noted for their ability with the foils and it is no disgrace to be beaten by either of them!

Joe Levis kept up his unmarred string of victories by capturing all of his bouts, both foil and duelling sword. Levis is considered one of the best fencers in collegiate ranks, having met and defeated the premier foils-men of such teams as Navy, Army, Columbia, and Cornell. Ken Hawthorne, who has been winning consistently for the Engineers, was on the sick list and was unable to take the trip. Spitzli took Hawthorne's place in the line-up and although all three of his matches were hotly contested he didn't display the form and ability which Hawthorne usually has.

## MASS MEETING WILL OPEN TRACK SEASON

Technology's track coaches and managers are planning to have a track mass meeting in room 10-250 next Monday afternoon. All students and anybody connected with the Institute are requested to be there. This will be the real beginning of track activities for the spring season. After coming through the winter meets without a defeat the prospects for a winning spring season are brighter than ever. Track has long been the major sport at the Institute and is always given a grand innovation before the formal opening of their season. Everybody is urged to attend, and regard the prospects of his college's track team for the coming spring.

## ENGINEER MATMEN SCORE 15 TO 9 WIN AGAINST STEVENS

New England Intercollegiates This Week Find Team In Fine Form

## THREE MEN WIN BY FALLS

Another victory was scored by the Varsity wrestling team when the Stevens matmen went down to defeat by the score of 15 to 9 in the Walker gym Saturday evening. Each team won three bouts, but the Technology wins were all falls, while the Stevens men were able to score their victories only by decisions.

Harris, Capt. Franks, and Burke were the men who gained falls for the Institute team. In each case the Engineer threw his opponent in about five minutes. Because of the illness of the Stevens 115-pounder, no bout was held in that class, so that Jimmy Cullen was unable to display his wares.

The opening bout proved to be the best one of the evening, Colli of Stevens having a slight edge over Johnson of Technology. As they were very evenly matched and were both very fast, the contest was full of action throughout and the winner in doubt until the end.

Warburton a "Find"

Warburton, a prospect discovered in the interclass meet, represented Technology for the first time in the 135-pound division. Although losing the bout by referee's decision, his work indicated that he will be a valuable man with a little more practice.

In the heavyweight class, Staebner of Technology lost to Milling of Stevens by referee's decision in an exhausting bout.

By winning their bouts by falls, Capt. Franks, Harris, and Burke indicated that they will be in top form for the New England Intercollegiates, which come on Friday and Saturday of this week. As this tournament will be contested in the hangar gym, the team should do exceptionally well when encouraged by the student body.

The Summary

125-lb.—Colli, Stevens, defeated Johnson, Tech, referee's decision.  
135-lb.—Weymouth, Stevens, defeated Warburton, Tech, referee's decision.  
145-lb.—Harris, Tech, threw Beers, Stevens. Time: 4 min. 32 sec.  
158-lb.—Capt. Franks, Tech, threw Rosenthal, Stevens. Time: 3 min. 49 sec.  
175-lb.—Burke, Tech, threw Hourigan, Stevens. Time: 5 min. 25 sec.  
Unlimited—Milling, Stevens, defeated Staebner, Tech, referee's decision.  
Score: Tech 15; Stevens 9.

## M. I. T. Swimmers Annex One Point In New England Intercollegiate Meet

Once again the victorious Wah-Who-Wah of Dartmouth College was shrieked from the hills of Hanover, when the swimmers of the Big Green won the New England Intercollegiate Championship held at Middleton, Connecticut, on Saturday evening, from five other colleges. The winners overwhelmed their opponents, annexing 37 points, which was one less than half of the total made by the six colleges together.

Brown was the closest rival of the champions with 16 points. Williams followed having 14. Then in order came Wesleyan 5. Amherst 3, and Technology 1. In the course of the finals and semi-finals, only three real upsets occurred. Lum of Williams, the favorite in the back stroke failed to place in his heat on Friday. Parker of Williams took a third in the quarter mile, instead of his expected first. McCaw of Dartmouth was disqualified in the back stroke.

Three New England records were broken, two by Dartmouth and one by Williams. Russell of Dartmouth lowered the 440 record by two seconds in the most closely contested race of the meet. Inches behind him Langworthy, Parker and Dodd finished almost in a dead heat. Schott took eight tenths of a second from the breast stroke record when he led his field home easily by a large margin. Dartmouth took a half second from the former relays time when they outdistanced all five teams.

Pushchin, in the 440, was responsible for the one point that saved the Institute from a shut out. He put up a great race and a real fight but the field was too experienced. The ab-

sence of Grover, the leading point scorer of the Engineers, resulted in the loss of a second and third place in the fifty and century for his team.

Honors in the dash events were split up between Bryant of Dartmouth and Captain Cole of Brown. In the hundred Cole just managed to put inches between himself and the Hanoverian, but in the shorter event Bryant evened matters by barely emerging with a victory.

McCaw and his team mate Simpson staged a very fast race in the backstroke only to be disqualified at the end of the distance. Michaels of Dartmouth won the fancy dive from Hull of Brown after both had displayed very skillful work. In the relays the Green secured an almost unfought victory over Williams when Brown and Amherst were disqualified.

## GYMNASISTS LOSE TO STRONG PENN TEAM

On Saturday evening the University of Pennsylvania gymnastic team defeated Technology in the Walker Memorial gym by a score of 42-12. The Institute was able to secure only one first place, and that when Waller scored an impressive win in the tumbling.

Pennsylvania had two men on their team that could have practically won the meet by themselves, each having taken two firsts and a second. Krueger and Kramer were the ones that made up this exceptional feat, and their performance has hardly ever if ever, been bettered at Technology.

Ehrman took the fifth first place for the visitors when he displayed his ability on the side horse. Bauer of the Engineers ranked second to his team mate Waller in the tumbling, while Newcomb came third on the flying rings.

## COURTMEN DROP FINAL GAME TO HOLY CROSS

As the curtain lowered on Institute basketball season, Coach McCarthy's court team succumbed to the powerful attack of the Holy Cross five in the Hangar gym Saturday night. The final score was 31-22. This marks the sixth consecutive loss for the Cardinal and Gray.

The game was played as a preliminary to the final game of the M. I. T. A. A. elimination tournament to decide the champion schoolboy team of Eastern Massachusetts.

Holy Cross started in like a house afire and set a hot pace all during the first half. In this half the Engineers seemed to have lacked that added punch which is essential to win basketball games, for time after time, the Purple player beat his man to the ball where an Institute player should have captured it. Holy Cross was also fortunate to have hardly any opposition in front of the basket at times during the first half, as Shanahan the streaky Purple forward, and Burke counted on five occasions from the floor.

Defense Missing

The Technology defence seemed to be missing all during the first half of the game as the opposing forwards had little or no trouble in bringing the ball in front of the basket in attempting to score. On two occasions did the Crusaders drop the ball through the net only to have the score killed on account of minor technicalities. Fouling was frequent on either side as Estes of Technology and Kittredge of Holy Cross were forced to withdraw from the fray on this account. The foul shooting on both sides was rather poor. The score at the end of the half stood 15-5 in favor of Holy Cross.

For the winners Captain Burke, Shanahan, and Connors were the high scorers, while for the Engineers the splendid work of Ernie Hinck who broke up many a Purple pass and his keen shooting. Umbenhauer, who replaced Biehle at center filled the latter's shoes to perfection figuring prominently in the passwork of the team.

The Summary

HOLY CROSS	M. I. T.
Shanahan, If	rg, Hinck
Connors (Morris, Cerbini), rf	lg, Meyer (Mock)
Kittredge, c	c, Biehle (Umbenhauer)
Riley, lg	rf, Estes (Innerasky)
Burke (Brady), rg	lf, Forrester
Score—Holy Cross 31, Tech. 22. Goals from floor—Connors 4, Shanahan 4, Burke 2, Kittredge 1, Riley 1, Hinck 5, Forrester 1, Estes 1, Biehle 1. Goals on free tries—Mock 1, Forrester 2, Umbenhauer 1. Referee Bill O'Connell. Umpire—Keller. Timer—Yates. Time Two 20-m. halves.	Score—Holy Cross 31, Tech. 22. Goals from floor—Connors 4, Shanahan 4, Burke 2, Kittredge 1, Riley 1, Hinck 5, Forrester 1, Estes 1, Biehle 1. Goals on free tries—Mock 1, Forrester 2, Umbenhauer 1. Referee Bill O'Connell. Umpire—Keller. Timer—Yates. Time Two 20-m. halves.

## TENNIS MEN WILL START NEXT WEEK

Meeting Today for Varsity and Freshman Candidates And Managers

All candidates for Varsity and freshmen tennis teams and all freshmen and sophomores wishing to enter competition for assistant managers of tennis are requested to meet in room 10-275 this afternoon at five o'clock. Tennis is one of Technology's most popular spring sports and in view of the number of men in the Institute who excel at the game competition for berths on the Varsity and freshmen squad should be unusually keen.

Next week the concrete courts will be open and in condition for playing. Immediately after they are put in use trials will be held among the candidates. The winners of these trials will be the probable members of the Varsity and freshmen teams.

As a nucleus for this year's Varsity there will be Peck, captain elect, Hinck, Eddy and Peterson. The usual ability of the Technology tennis team may be estimated when it is recalled that Joe Russell, last year's captain, won the singles in the New England Intercollegiates.

So far this season's schedule includes Brown, Army, Dartmouth, Wesleyan, Tufts, and Boston University, with tentative encounters with the University of Pennsylvania and Pratt Institute. Last year's team lost only one match out of eight, defeating such teams as Dartmouth, Brown, and Boston College. This season the racquet wielders are expected to come through without a loss.

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## FROSH HOOPSTERS CONQUER BRUINS

### Engineer Teamwork is Feature Of Freshman Victory At Providence

The victorious Cardinal and Gray yearling five closed the season in a blaze of glory, by setting back the Brown frosh at Providence by the score of 35-28.

Coach Berny Morgan's understudies were gratefully deserving of victory as they displayed the usual superior grade of teamwork. Their passing and their methods of working the ball under the basket were by far better than the Bruins.

Play was about even during the earlier part of the first half with Allison, the giant center on which the Brown team was centered, and O'Hare, the Brown guard, dropping the ball in from all angles. O'Hare made several pretty air baskets from the center of the floor. With about three minutes to go in the first half the Bruins were in the van with an advantage of 6 points. Then the Engineer gunnery found the range of the basket and in three minutes scored fourteen points. Captain Brockelman and Norm McClintock, the tall rangy point man, scored with little trouble.

In the last half the play was about evenly matched as the scoring was about even.

Allison and O'Hare were the big point corralers for the Bruins while the Engineer team work featured their play.

### ALUMNUS TO ADDRESS MECHANICAL SOCIETY

Professor Audrey A. Potter '03, Dean of Engineering and Director of the Engineering Experimental Station of Purdue University, will be the speaker at the Mechanical Engineering Society meeting in North Hall, Walker to-morrow at 7:00 o'clock.

He is at present making a speaking tour of Student Branches of the American Society of Mechanical Engineers and his discussion tomorrow will be "The Contribution of Engineering to Human Welfare." Professor Potter is a graduate of the Institute, Class of 1903, Course VI.

### Interfraternity Basketball Schedule

#### Third Round

March 16—Kappa Eta Kappa  
—Lambda Chi Alpha

March 17—Sigma Nu

Psi Delta

March 18—Theta Delta Chi

Beta Theta Pi

All games to be played in the hangar at 7:30 p. m.

### Big Attendance At Third Joint Musical Concert

### Three Bands Furnish Music For Dancing Following Regular Program

(Continued from Page 1) the second appearance of the Dartmouth Instrumental Club was a specialty Charleston act offered by Charles E. Richheimer '28. Following the offering of "June" and "Alice, Where Art Thou" by the Dartmouth Club, the M. I. T. Glee Club Quartette sang three numbers and the applause called for an encore, but lack of time prevented this. Next the Barbary Coast Orchestra made its first appearance of the evening and was well received. H. W. Corman, a specialty dancer, accompanied them.

In order followed the M. I. T. Mandolin Club, the specialty banjo duet by two Dartmouth men, and the Techtonians of M. I. T. The program was closed by the customary Stein Song after which dancing continued until 2 o'clock, with music furnished alternately by the Barbary Coast Orchestra, the Tunesters, and the Techtonians.

### Sports Desk

The interclass wrestling meet held in the Walker gym on Thursday and Friday proved to be a success in that many men competed and a number of promising new men were discovered. The purpose of the bouts was mainly to unearth if possible some candidates for the second Varsity mat team, which will compete in the New England Intercollegiates on Friday and Saturday.

One man, Warburton, did so well that he competed in the meet against Stevens in the 135-pound class in place of Rabinovitz, who is out with a culler ear. As the experiment proved so successful, it is thought that this meet will be made an annual fixture.

### DR. CRANDALL TO ADDRESS SEMINAR

Dr. I. B. Crandall of the Bell Telephone Laboratories of New York will be the speaker at the Physics Seminar in room 4-231 tomorrow at 4 o'clock. He will lecture on "Wave Forms and Analyses of Speech Sounds."

In collaboration with Dr. Fletcher in the Bell Laboratories, Dr. Blanchard is doing research work on wave forms as applied to telephony and he will discuss the theory as developed, and practical applications. Lantern slides will be shown illustrating recent developments.

### Professor Feels That Metallurgist Has Bright Future At Present Time

(Continued from Page 2) good sums for his services. The goal of the future will be position of director of a large mining enterprise corresponding to that which Mr. Swope holds in the General Electric Company.

#### Prospects For Mining Engineer

What are the immediate prospects for a young mining graduate? If he elects to follow straight mining he can start on either the engineering staff or the operating staff. In recent years a goodly number have gone into the production of petroleum. If he prefers to specialize in the milling or smelting of the ore after it is mined he will secure an opening in the laboratory or in the plant. If he leans toward the geological work he will find that the large mining companies now maintain geological staffs or he can become a junior member of the federal or one of the state geological surveys. Finally, if he has taken the mining course with the deliberate intention of not following that profession but because of his realization that it is one of the broadest courses in engineering training, he may start work along any one of almost innumerable lines. Selecting at random a class which has been graduated over ten years we find nine managers, government engineers and experts, iron and steel operators, chemical engineers, geological engineers, advertising managers, engineering salesmen, railway engineers, commercial business men, electrical engineers and even a man in aviation. Similar analysis of other classes would disclose many other lines of endeavor including even banking, agriculture and the minis-

The starting salary is practically the same as in other engineering lines and similarly the advances in salary governed entirely by the ability of the individual. Except in a few very lean years the demand for mining graduates from Technology has always exceeded the supply.

Mining has attractions for men who desire to go to foreign countries or to rough it in the wilds. On the other hand, many opportunities lie near at home and for the man who prefers urban life there is the choice of large mining centers such as Butte, Salt Lake City, and many others which give him all the conveniences and luxuries to which he has become accustomed in the effete east.

What is the nature of the mining course at Technology? The aim of Option 1 in Course III is to provide a broad training to enable a man to follow the divisions of straight mining, milling, metallurgy or geology or even any general engineering line. Briefly it accomplishes this by the grounding in mathematics, physics and chemistry, by the special professional work in mining, ore dressing, metallurgy and geology, by the briefer courses in civil, mechanical and electrical engineering, and finally by the courses in economics and cultural subjects.

\*Since this article was written the author attended a luncheon of representatives of mining schools from all over the country in connection with the annual A. I. M. E. meeting in New York City and without exception the views of all these men were found to coincide with that of the author as regards the promise which the future holds for students in mining.

### ENGLISH HIGH BEATS FRESHMAN FENCERS

#### Vernon Saves Freshmen From Complete Whitewash

Boston English High School fencing team decisively defeated Technology's freshman team by the score of 8 to 1 Saturday afternoon in North Hall. Vernon saved his team from a whitewash when in his final match he defeated Hartman, the high school's alternate. Staller starred for English High and was without a doubt the most skillful foilsmen in the meet.

Feldman, a porterside, created quite a lot of trouble as the Tech right handers couldn't manage to sneak around his guard. In the last match the freshmen very nearly remedied this defect by putting in their alternate, Harrison, who also excels with his left hand. Harrison proved that it is advantageous to be able to fence with the same hand as your opponent uses when he gave Feldman the best exercise he had the whole afternoon.

President Howard Edwards of Rhode Island State College holds that higher education should not be limited to those who have made brilliant previous records. The so-called intelligence tests to determine the capacity of applicants are a delusion and do not accurately measure ability. Selection of properly qualified students for college is substantially an unsolved but very pressing question. A line has to be drawn somewhere but it is not enough that his record has been brilliant merely in books.

### Notices and Announcements

#### OFFICIAL

##### PHYSICS X8.023

Lectures in X8.023 will be given in accordance with the class schedule for 8.04, beginning Wednesday, March 17, at 10 o'clock. Recitations may be taken with any of the 8.04 groups, beginning with the week of March 22. Laboratory exercises in 8.023 should be arranged for in room 4-420 during the week of March 15.

##### PHYSICS X8.022

The final examination in X8.022 will be held on Saturday, March 20, in Room 3-440, from 1:30 to 4:30.

Exercises in X8.013 will begin with the lecture Thursday March 18th. Recitations may be taken with any of the groups listed on the first year schedule. Laboratory assignments should be arranged for in Room 4-410.

##### XEc 32

A special examination in XEc 32 will be given today from 12 to 1 in room 1-271.

#### UNDERGRADUATE

##### TENNIS

There will be a meeting of candidates for the Varsity and freshman tennis teams in room 10-275 at 5 o'clock this afternoon. Trial matches will be held on the concrete courts this week. Freshmen and Sophomores intending to try out for positions as assistant manager should also report at this meeting.

##### MECHANICAL ENGINEERING SOCIETY

Professor A. A. Potter, Purdue University will address the Mechanical Engineering Society tomorrow night in North Hall, Walker, at 7:00 o'clock.

##### SOPHOMORE CLASS MEETING

There will be a mass meeting of the Sophomore Class in room 5-320 Wednesday at 5 o'clock.

##### CIRCUS COMMITTEE

The entire Circus Committee will meet in the Committee Room of Walker Memorial tomorrow at 5.

##### DEBATING SOCIETY

There will be a meeting of the Debating Society tomorrow at one o'clock in room 2-190.

##### PORTLAND CEMENT ASSOCIA- TION

The Portland Cement Association will hold a meeting in room 3-270, every Tuesday evening until March 30, inclusive, with the final meeting on April 27. All meetings run from six to ten o'clock.

### Professor Favors Better Training For Engineers In Self-Expression

#### Professor Higbie States That Most Engineers Fail to Write Well

There are many reasons, of a nature distinctly intimate and personal to the individual, why colleges of engineering should devote much more attention than they do to the development of writing ability among their students. So writes Professor H. H. Higbie of the Electrical Engineering Department at the University of Michigan. His article in the *Wiley Bulletin* goes on to say:

Someone, keenly conscious of these important considerations, has said:

"The habit of committing our thoughts to writing is a powerful means of expanding the mind, and producing a logical and systematic arrangement of our views and opinions. It is this which gives the writer a vast superiority, as to the accuracy and extent of his conceptions, over the mere talker. No one can ever hope to know the principles of any art or science thoroughly who does not write as well as read upon his subject."

We think in terms of words, even when our thoughts are neither spoken nor written. Throughout the development of civilization, language has been not only the essential vehicle but also the greatest stimulant for thought.

##### Disadvantage To Engineers

"In consideration of the important, useful, and potentially interesting things they know, it is astounding how

few engineers are able to express themselves appealingly either in writing or speech, even to other engineers who speak their jargon, far less to the public which is shamefully inappreciative of their abilities and worth, while enormously indebted for their achievement. There will never be an end to this situation until we not only require our students to write whenever a good motif is found, but make it commendable for them to do so."

"The writing out of one's thoughts, like the drawing of detailed plans, compels one to analyse, organize, and fit ideas together and thus minimizes or prevents the fumbling that might otherwise characterize almost any unusual operation. Writing upon serious subjects, especially if in competition or under the surveillance of a competent preceptor, cannot be excelled as training for orderly and efficient thinking, nor as a means to create standards and pride of workmanship in the student mind. Then, too, the practice of writing out one's thoughts affords valuable training in presentation of studied material and in "selling" one's own "goods."

"Not the least that we may say in advocacy of more training and exercise in writing is that it may and should furnish an incentive to find novel and interesting modes of expression for an inadequate supply of thoughts. A person whose limitations of vocabulary would not embarrass him or even be noticeable to himself in spoken discourse or conversation becomes thoroughly ashamed of his meagre, stereotyped or stilted modes of expression when they appear in writing before his own eyes."

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