

FOURTH POPULAR SCIENCE LECTURE FEATURES X-RAYS

Professor Bertram E. Warren
Of Physics Exhibits
Weird Effects

LAST LECTURE OF YEAR

X-Rays, their effects and properties, and the extraordinary results of their study in connection with crystals were discussed yesterday afternoon by Professor Bertram E. Warren of the department of physics, in the fourth Society of Arts Popular Science Lecture at the Massachusetts Institute of Technology.

X-Rays were discovered over thirty years ago, said Dr. Warren, when a German scientist, Wilhelm Konrad Roentgen, tried to photograph the fluorescence which resulted when he passed electricity through gases at low pressure. He was greatly annoyed to find that the photographic plates which he kept in the same room repeatedly became lightstruck and useless. Investigating this mystery, Roentgen discovered its cause to be the radiation from the positive end of the tube, which he called, for want of a better name, X-Rays. X-Rays are now known to be radiations produced by the bombardment of any solid target by high speed electrons, which are freed from gases by an electric current.

X-Ray photographs were taken and developed during the lecture. Aluminum is more transparent than glass before an X-Ray beam, Professor Warren showed, while lead is practically opaque, illustrating the fact that the lighter a substance is the easier X-Rays penetrate it.

The study of crystals has given us most of our modern knowledge of X-Rays, said Dr. Warren, and vice versa, we have learned of crystal structure by means of X-Rays. The projected reflection of an arc light on a rippling pool of mercury was used to illustrate diffracted beams of light. A comblike aluminum bar set in the path of the waves caused a new set of waves to appear at an angle. This phenomenon of the diffracted beam forms the basis of spectroscopy. White light passed through a ruled grating split into many diffracted beams of all colors.

Sharp reports resembling machine gun fire came from an amplifier and loud speaker when a very sensitive

(Continued on Page Four)

FACULTY CLUB HOLDS DINNER NEXT MONDAY

Comprehensive Examinations
Subject of Discussion

Comprehensive Examinations will be discussed at an annual joint meeting of the Faculty Club and Alumni Council, which will be held in the Faculty Dining Room, Walker Memorial, on Monday, March 23, at 6:30 p. m. Dinner is \$1.50 per plate, informal. These meetings have always stimulated friendly relationships between faculty and alumni, and have provided opportunities for the consideration of educational problems or projects of mutual interest.

The Faculty Club is fortunate in having, as its guests, Professor Clifford H. Moore, Dean of Arts and Sciences at Harvard University, and Professor Leon Richardson, Head of the Department of Chemistry at Dartmouth College, to discuss the above mentioned subject.

FENCING TEAM LOSES TWO MORE MATCHES

Dropping two matches in succession last week, the Institute fencing team lost to Harvard 15-2 and to Norwich Military Academy 11-6.

In the meet with the Crimson team, the Engineers lost all three events, Sheppard winning the only foil match for the Institute, defeating Cassidy of Harvard; Hamilton taking the epee contest with Ludlam, and nobody showing in the sabre tilt.

In the foil matches with Norwich, Hamilton won over Pendo and Gregory, Sheppard won over Batchelder and Gregory, and Kennedy was defeated.

Technology tied with the Academy in the epee contest, Sheppard defeating Briggs and losing to Batchelder, Frisby losing to Briggs, and Hamilton beating Briggs. The sabre bouts were all lost to Norwich.

M.I.T.A.A. Basket Tourney Won By Fitchburg Team

Wins Final Round From Lynn
By 23-21 Score—Eight
Teams Compete

In a closely contested and interesting basketball tournament sponsored by the M. I. T. A. A., Fitchburg High School last Saturday defeated the Lynn English High by a score of 23-21 in the finals to take the title. This was only one of many close victories witnessed by crowds in the Hangar Gym, which numbered over a thousand people each of the three nights the tournament was in progress.

Eight teams comprised the entrants, all from Eastern New England. In the first round last Thursday, New Bedford scored a one-point victory over Haverhill in the last twenty seconds of play for the first of the thrillers; this was followed by Fitchburg's initial win over Salem High School. Lynn defeated Brockton decisively, 33-20, and Rindge Tech won the third close game of the day by defeating Medford, 25-24.

Second-round games on Friday were not as close as those the previous round, Fitchburg and Lynn English both piling up high scores to eliminate New Bedford and Rindge from the tournament. Fitchburg won by a 45-33 score from New Bedford and Lynn from Rindge in the closer game of the two, 39-26. In the latter game the two teams were neck and neck until the last few minutes, when Lynn piled up a thirteen-point advantage. This was because of the difference in height and weight of the two teams, the winners having a distinct advantage over the losers in this respect.

In the final round Saturday night, before a crowd of about 1200, Lynn English looked as if they would use this same advantage to defeat Fitchburg, taking a nine-point lead in the first quarter. However, during the second period the champions rallied, and at the half the score was 15-10, the edge still remaining with English. At the end of the intermission, Fitchburg continued its rally, holding Lynn to one basket the third quarter, and only two the last, while they were piling up thirteen points.

Game Furnishes Thrills
After all the thrills experienced by the spectators, the best one came in the last minute of this game. Larry McGovern, Lynn captain, took a long pass under his basket with 35 seconds to go and his team one basket behind, but was rushed for his shot and missed only by a narrow margin. This was Lynn's last chance for victory and was the deciding play of the tournament. McGovern was one of the stars of the competition, and was high scorer.

Fitchburg, after emerging from the first round with a considerable scare, in which they practically won from Salem in the second half alone, showed some real form in the last two games. The Fillback brothers and Nelson, a forward, were the stars of the entire tournament.

ENGINEERS LOSE TO GYM TEAM OF NAVY

Undeclared Leaders of League
Beat Institute 36-18

By a score of 36-18, the M. I. T. gym team lost to the undefeated Naval Academy at Annapolis on Saturday. Notwithstanding the fact that the Navy squad is the leader of the Eastern Intercollegiate Gymnastic League this year, the Engineers were able to win one event out of the six comprising the meet.

In the first event, the horizontal bar was taken by the Midshipmen, Courtze of Navy winning first place and second and third places being taken by Getting and Freeman. Bass of the Academy took the least time to climb the rope, doing it in 4.7 seconds, the world's record being 4.5 seconds. Knapp, captain of the Beaver squad tied for second with Jett, the time being 5.4 seconds.

Knapp Wins Side Horse
Knapp won the side horse, followed by Nuesle, of Navy and Lawnsine of the Institute. Ericson of Technology, came second in the parallel bars, which was won by Courtze of the Naval Academy.

Navy took first and second places in the flying rings, followed by Lawnsine of the Engineers, who took third. Abbot took second place in the tumbling contest, losing to Jukes of the Academy and winning over Courtze.

"TECHNICALITIES" TO OPEN TOMORROW NIGHT AT FINE ARTS THEATRE IN BOSTON

TWO OF FRESHMEN WRESTLERS TITLE HOLDERS IN CLASS

Isbister and McCaughan To
Enter in National Meet
For Yearling Team

PITBLADDO IS RUNNER-UP

In the New England Intercollegiate Wrestling championship matches at Providence, last Friday and Saturday nights, two Technology freshmen became title-holders for their classes, and the freshman team placed fourth in the Association. The Varsity, suffering from injured men in the different classes, was not able to turn in as high a score, but also was able to take the fourth place for Varsity teams, being defeated by Tufts, Harvard, and Brown.

Eric Isbister and George McCaughan, of the freshman team, won each match over their opponents, both on Friday and Saturday nights to top the 145-pound and the 165-pound classes, respectively, and to win the title of the New England Intercollegiate freshman Champions.

Pitbladdo Runner-up in His Class
Captain Pitbladdo, of the Varsity, was runner-up in his class, the 145-pounders, defeating Dorman of Harvard. This was Pitbladdo's last match for the Institute, and it was a disappointment to everyone that he was not made the champion.

Louis Vassalotti, the Varsity 155-pounder, met two of the best men in the meet, and was defeated by both of them. In the first of these two matches, because of the tie at the end of the appointed time for the decision, both men having held the advantage for an equal amount of time, the match was run into overtime, with the Harvard man gaining an advantage of one minute and fifty seconds over him.

Loses Match for Runner-up Position
In the bout for runner-up, Vassalotti lost his match with Balkus of Tufts to give the Boston college the necessary lead to carry her past Harvard's mark. However, at the end of the evening Pitbladdo defeated Dorman of Harvard. Had the Crimson representative won the match, the additional six points would have given the team title to Harvard.

Bob Ripin, the lightweight, placed third in his class in the finals by defeating Chasset of Brown with a time advantage. When Brown came to Technology for a dual meet Ripin lost to this same man, and when it was heard that Chasset was to be his opponent in the tournaments, he set himself for a revenge and accomplished it nicely, handing him a stinging defeat.

A. I. E. E. WILL HOLD DINNER DISCUSSION

Dr. Stratton to Be Present at
Student Branch Dinner

Two student papers will be presented at a dinner meeting of the Student Branch of the American Institute of Electrical Engineers, tomorrow night at 5:30 o'clock in the North Hall of Walker Memorial. Tickets may be obtained for sixty cents, at Room 4-203.

Francis D. Weeks '31 will give a paper on "Super Power Production" which will cover the interconnection and interchange of power between electrical utilities. Although at the present time this has not been developed practically, a recent test power was transmitted from Boston to Chicago and then on down to Florida.

Gordon S. Brown '31 and John C. Gibson '32 will explain in their paper on "Power Factor Correction and the Fynn-Weichsell Motor" some of the interesting problems which arise in this connection. Also, a recently developed motor for this purpose will be discussed.

Kerosene Fails to Burn For Chemistry Lecturer

What is supposed to have been a perfectly good fire extinguisher went begging for an opportunity to prove itself in a freshmen chemistry lecture last week. Some kerosene was poured out into a dish and a match applied to it. Nothing happened, and after three attempts a Turrill burner was tried with the same effect. Having nothing else at hand with which to produce a fire, the exhibition of the extinguishing properties of the substance was indefinitely postponed, but it was concluded that an excess of water does not increase the combustibility of kerosene.

TELEGRAPH EXPERT LEADS COLLOQUIUM

Parker To Speak on "Modern
Telegraphy and Its
Trend" Today

Mr. R. D. Parker, Telegraph Development Engineer of the American Telegraph and Telephone Company, will lead a colloquium on "Modern Telegraphy and Its Trend," this afternoon and tomorrow in Room 10-275, from 2:00 to 4:00 p. m., under the auspices of the Department of Electrical Engineering. As the discussion will occupy two days, students attending should arrange their work so as to be present on both days. Men desiring a personal conference with Mr. Parker on Tuesday morning will arrange it with Miss Baker in Room 4-202 before 9:30 a. m. Having received his B.S. degree from the University of Michigan in 1905 and his M.S. degree in 1906, Mr. Parker became an instructor in the Electrical Engineering Department of that university. In 1909 he was appointed assistant professor, and in 1913 he became associated with the American Telephone and Telegraph Company.

Mr. Parker's principal work has been in the field of telegraphy, including the developing of printing telegraph systems, and carrier and other metallic circuit systems for line wires. He was a pioneer in the field of electric transmission of pictures, the American Telephone and Telegraph company's first work in this field having been carried out under his direction.

CONFERENCE RESULT REPORTED SUNDAY

Mrs. Compton Plays Hostess
To Faculty and Students

Technology's delegates to the Student-Faculty Conference, which was held in Detroit during the Christmas recess, reported yesterday to a meeting of students and faculty members of Boston colleges. The meeting was held at the residence of President Compton, through the courtesy of Mrs. Compton.

Beginning at four o'clock and lasting for several hours, the meeting consisted of a discussion of the issues of the Student-Faculty conference and of the opinions of officials from Boston colleges. After the discussion, a buffet supper was served.

Phosphorus Won't Tell Says to "Wait and See"

Phosphorus has become secretive, and we don't like it. Usually THE TECH gets a review copy, but this month the old cat refuses to give us one. We're just dying of curiosity, but the only thing we can get from the feline is "Wait and see."

He does give in so far as to tell us that this issue will be bigger and better than the previous ones and that the Prom will be deservedly featured.

TECH SHOW 1931 PREPARES SECOND PUBLIC SHOWING

Show Climax of Five Months'
Constant Rehearsing and
Stage Make-up

TICKETS GOING RAPIDLY

As a fitting climax to five months of planning and rehearsing, "Technicalities," the thirty-third production of the Tech Show organization, will be presented beginning next Tuesday and running for the rest of the week at the Fine Arts Theater. Tickets are on sale in the Main Lobby, and at the Tech Show Office in Walker Memorial.

Written by the same students, Adolph H. Feibel '32, and John M. Cleveland '31, who wrote "Snobberies of 1930" last year, "Technicalities" profits by their experience, and is said to be a very entertaining and unusual review in the modern manner.

The show was given at Mt. Holyoke College on February 21 as the concluding event on Senior Week, and was met with great enthusiasm. Part of the show was broadcast over Station WBZ last Monday night. The Massachusetts Safety Council turned to the show for entertainment, and a few skits and dances were presented at their meeting in Walker Memorial Thursday night.

Skit Well Spoken Of
At the previous performances the two skits "Divorce Granted" and "Under Cover" were highly praised. The first is a sketch which contrasts the ideas of Boston and Hollywood wives in regards to what may be grounds for divorce; "Under Cover" takes place in what at first appearance seems to be a speakeasy, but in reality is also a Boston shop selling censored books. An officer appears at the vital moment, and during the rest of the skit Boston's conventional law enforcement is exposed mercilessly.

Thirteen musical and chorus numbers are presented with the skits. In these appear many of Technology's embryo engineers who, after many weeks of rehearsals, have been slowly but surely transformed into chorus girls who can kick, tap dance and smile with the self-assurance of any born chorine.

Written by Students
The music, with one exception, was written by students at the Institute. This year's composers include Eugene S. Clarke '34, Carl Connable '31, Robert M. Rossi '33, and Henry B. Walker, Inc. Technicalities, the opening number of the show, has been so well spoken of by those who have heard it that it is now being published, and copies of it will be placed on sale during the show. The orchestra has been rehearsing for several weeks, and is also made up entirely of Technology men.

Many Tickets Sold
From night and Saturday night have proved the most popular with the buyers, although tickets have been selling at an encouraging rate for the entire week. A ticket office is maintained in the Main Lobby and after 5 o'clock in the Tech Show Office. Orchestra seats that sell for \$1.50 run back to row S and include the first two rows of the balcony, the other seats sell for \$1.00.

All this past week the managing staff has been busy designing and setting up the scenery in the theater, while the electricians have been busy fixing the lighting effects.

Co-eds Take Part
Another branch of the staff is made up of several co-eds under the direction of Grace G. Farrell, G. and Marjory A. Holden, G. They have charge of the wardrobe for both the cast and the chorus.

Both the cast and the chorus have been coached by Langdon Matthews, the coach of the chorus for the last four years, this year he has done the entire job.

A Record of Continuous News Service For 50 Years



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

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

<p>MANAGING BOARD C. M. Thayer '32 General Manager A. S. Ellis '32 Editor S. R. Fleming '32 Managing Editor W. H. Barker '32 Business Manager</p>	<p>OFFICES OF THE TECH Walker Memorial, Cambridge, Mass. News and Editorial—Room 3, Walker. Telephone UNI versity 7029 Business—Room 302, Walker Telephone UNI versity 7415 Printer's Telephone HAN cock 8387-88 SUBSCRIPTION PRICE, \$2.50 PER YR. Published every Monday, Wednesday and Friday during the College year, except during College vacations Entered as Second Class Matter at the Boston Post Office Member Eastern Intercollegiate Newspaper Association</p>
<p>ASSOCIATE BOARD P. E. Davis '33 News Editor F. W. Wehmiller '33 Sports Editor B. H. Whitton '33 Features Editor D. H. Clewell '33 Make-up Editor J. G. Hayes '33 Advertising Manager D. B. Smith '33 Business Service Mgr. R. W. Fortier '33 Circulation Manager</p>	<p>BUSINESS DEPARTMENT Associate Business Service Manager G. H. Ropes '33 Staff R. Bell '34 E. T. Krim '34 R. G. DuBois '34</p>
<p>EDITORIAL DEPARTMENT Editorial Board W. B. Schneider '32 C. W. Sweetser '33 R. T. Craig '32 A. G. Bowen '33 E. F. McLaughlin '32 J. L. Friedman '32 W. L. Sheppard '33</p>	<p>CIRCULATION DEPARTMENT Staff J. T. Burwell '34 K. H. Lippitt '34</p>
<p>NEWS AND SPORTS DEPARTMENTS Photographic Staff S. A. Coons '32 W. G. Fry '34 P. H. Bonnet '31</p>	<p>ADVERTISING DEPARTMENT Associate Advertising Manager K. G. Bell '33 Staff E. Alderman '34 A. A. Hopeman '34 W. R. Churchill '34 A. M. Heintz '34 J. R. Newell '34</p>
<p>REPORTERS R. F. Allen '34 R. Taylor '34 D. Horvitz '34 C. Bates '34 D. Rubenstein '34 P. Cohen '34 C. S. Dadakis '34 G. K. Crosby '34 W. J. Lindsey '34 T. N. Rimbach '34 E. P. Jastram '34 W. L. Wise '34</p>	

In charge of this issue: Converse W. Sweetser '33

INTERMISSION

WHAT might have been called "Junior Week" begins today an ordinary six days of regular preparation and recitation. Before it was dropped from the Institute social calendar two years ago, this week occupied a position comparable to the spring festivities in most of the colleges and universities in the country, but because of the combined facts that it occupied the only second term vacation, and that it called for whole-hearted support of the student body, an impossible ideal to strive for, it became obvious that its existence must be terminated. However, a few of the old traditions still remain, and the week may be said to carry an encouraging amount of its former import.

"Technicalities" has been advertised for months, and has been in rehearsal for a longer period. When it was produced before the student body at Mt. Holyoke College, it enjoyed no small measure of success, and the management feels that this week it will be given before appreciative audiences taken from the undergraduate body of the Institute. With only four performances which may be witnessed by Technology students, it is suggested that all those desirous of attending the 1931 Tech Show avail themselves of tickets today at the latest. Certainly the production deserves the undivided support of the school whose name it bears.

The Junior Prom is practically the oldest Institute tradition that enjoys an annual reappearance. This year with two orchestras of wide reputation, and with the scene set for the second successive time in the heart of Institute activity, the Walker Memorial building, we should expect an evening that meets all the requirements for the "social highlight of the school year." The committee for this occasion has reported that tickets have been selling encouragingly, and that every effort is being expended to make this year's Prom reach, if not exceed, the successes of its predecessors.

We have the Corporation to thank for a tea dance Saturday afternoon. Recurring annually following the Junior Prom, this occasion finishes off a week of social activity in the most appropriate manner, a salute by the men behind the organization of an institution to the men who are benefitting by its existence. The Corporation Tea Dance will be held in Walker Memorial amid the decorations which looked down upon the Junior Prom the night before.

Obviously, while we may complain that Junior Week is rapidly becoming a memory, it has not dwindled into mere nothingness. Some of the traditional festivities have been postponed to a later date, others have been dropped completely, but there still remains a surfeit of social activity which has no rival in the annals of the school year.

A VALUABLE CONTRIBUTION

FRIDAY afternoon marked a new departure in the instructing program of Course XV when Victor M. Cutter, President of the United Fruit Company addressed the student body. Packed to capacity, Room 5-330 contained a representative group from practically every course, and the address was so appropriate to the fundamental ideas behind a technical school that it becomes an earnest hope that the policy continue.

There is no need to reiterate the assertion that every bit of practical experience that a man receives before he is graduated is a contribution to his ultimate success. Admittedly this one fact is adequate reason for offering such a series of lectures but there are other factors which are contributing as well. The actual and informal contact with men who have made their mark in the business world, the study of the character, personality, integrity, and all other attributes which are combined within such a man as Mr. Cutter can be of inestimable value to the student, no matter what may be his chosen field of endeavor.

This new series, along with the Aldred lectures, is a commendable effort on the part of the Institute to offer every possible opportunity for the student's intellectual advancement, and the heads of the Business Administration Department are to be congratulated for its inauguration.

More Foreign Students at Institute Than at Any Other Technical School

Almost Half of all Foreign Engineering Students At Technology

What do foreign students come to the United States for? A great many of them, to take one instance, come to study engineering, and more of these foreign would-be engineers come to M. I. T. than to any other one engineering school in the country. Of a total of 437 foreign students enrolled in engineering schools, 201 are at the Institute. Rensselaer Polytechnic Institute, which draws the next largest number, has less than a third as many.

The total number of foreign students in the United States this year is 10,478, a total slightly greater than last year's figure. Of this number, 1,141 come from Canada, 1,336 from China, 1,004 from Japan, and 905 from the Philippines.

Many Nations Represented

Following in the order of their representation in American schools are Russia, Germany, England, Mexico, Porto Rico, Cuba, India, Italy, Poland, France, Korea, Panama, Scotland, Greece, and Switzerland. Practically every country on the map is represented though the amount of representation varies greatly; and there are students here from other countries as Iceland, British Somaliland, Rhodesia, Java, Borneo, Belgian Congo, Egypt, and Afghanistan. The total number of countries represented is 102. At the Institute alone 91 of these countries or 89% of them are represented.

Columbia, the largest university in the world, has 766 foreign students. New York University follows next with 611, and the University of California takes third place with a total of 595. Listed in the order of decreasing numbers come the University of Southern California, the University of Chicago, the University of Michigan, the University of Minnesota, Harvard University, Cornell, George Washington University, the University of Washington, and Technology.

It is interesting to note that the number of women's schools are comparatively small and that nearly all of this year's figures are higher than those for the last year.

Although engineering attracts many of these foreign students, theology seems to attract even more of them. The quota for theological schools and seminaries for this year is 653, a number considerably larger than that quoted for engineering schools. Next

THE OPEN FORUM

To the Editor of THE TECH:

To comment on the "cultural" equipment of an engineer, touched upon in an editorial of the issue of Wednesday, March 11: Whatever may be said regarding a "cultured engineer" and the necessity that all engineers have their profession set on a background of culture and aesthetic taste could not be an over-emphasis. This requirement has been set as a worthy ideal since ancient times. To quote from one ancient writer, Marcus Vitruvius (150 B. C.):

"The engineer should be a good writer, a skillful draftsman, versed in geometry and optics, expert at figures, acquainted with history, informed on the principles of natural and moral philosophy, somewhat of a musician, not ignorant of the Sciences, both of law and of physics, nor of the motions of the heavenly bodies. Moral philosophy will teach him to be above meanness in his dealings, and to avoid arrogance. It will make him just, compliant, and faithful to his employer, and, what is of highest importance, it will prevent avarice gaining ascendancy over him, for he should not be occupied with thoughts of filling his coffers, nor with the desire of grasping everything in the shape of gain, but by the gravity of his manners and a good character, should be careful to preserve his dignity."

I may remark that a cultural and aesthetic taste in life is cultivated and developed more by intelligent and efficient use of one's leisure time than by college courses in the liberal arts. Such courses should certainly serve as a guide to intelligent, self development, but yet the liberal art student may be just as much absorbed in the technicalities of his liberal studies as the engineering student in his technical work, thus missing the spirit and soul of a cultural training through acquiring the static form thereof.

Let us not wish the remote requirements of a liberal arts undergraduate course as a prerequisite to an engineering training. For after all, one may, even with that, fail to develop a cultural outlook on life and an aesthetic taste. Rather let us avail ourselves of the many hidden opportunities that are as near to us as our own selves.

EMILE J. DUMIT, G.

to medical and hospitals, in which 307 are enrolled, come music-and-art schools, business schools, agricultural schools, normal schools, and military academies.

Are Mature Specialists

The foreign students are mostly specialists. They are not school boys and girls, but mature men and women who know what they want and where they are going. Many of them are scholarship students. They have come with the aim to acquire knowledge which will be of value in developing their own countries. The majority of the women expect to go back and teach. The men wish to develop the natural resources and wealth of their countries. And together they hope to cultivate the arts and sciences in their homelands.



Fortune Smiles On Institute Professor

"The Playboy of Boston," who is entitled to a free night at the exclusive night club, the Mayfair, by virtue of holding the lucky number in the last Voo Doo raffle, had been found long ago but this is the first time his name has been announced. He is Professor Gustave C. Dahl of the Electrical Engineering Department.

Queer as it may seem Professor Dahl has not yet used his free subscription. "Too busy," is his reason, but he says he will put it to good use very soon. Although there is a stipulated sum which cannot be exceeded, Professor Dahl says it is sufficient for "two persons to have a very good time."

The discovery that he had won the coveted prize came quite by accident. He says he read the winning number in THE TECH when it was published but gave it no more thought. That night he happened to see the number of his copy of the Voo Doo on his desk. He had a faint recollection that this was the number, and sure enough when he again looked up the next day he found he was the envied winner.

Urchins Drop Planks On Crew for Fun

For the first time since the crew has begun practice on the Charles River, it has been subjected to serious aerial attacks. The aggressors are, presumably, a group of street urchins, who find it much to their amusement as well as superb training for the eye, to drop fairly large sized planks upon the shells as they go gliding under the bridges.

It was reported last week that one of the planks hit a shell between Number three and Number four and came very close to upsetting it. The planks also seem to have a psychological effect on the men whenever they pass under a bridge, tending to cause a change in velocity.

What Coach Haines will do about this new menace cannot be said. A canopy can be mounted on the shell to catch the logs as they come hurtling down from the heights, or anti-aircraft guns might be placed on the boats. But these are merely suggestions.

"Sockey" Fascinates Dorm Men

"Sockey" originated a few weeks ago in the dormitories may some day become a popular pastime. A number of men on the fifth floor of '01, finding time hanging heavy on their hands, invented this combination soccer-hockey game to be played in the corridor.

The two door sills on either side of the hall serve as goal-lines, between which a large wooden puck is kicked back and forth. There are doubles and singles played on the "court" and a score board on the wall records the goals.

The games generally begin about midnight and last until one member of the team becomes disabled. This usually occurs between one and two o'clock, and any of the devotees of the sport can tell you the torture suffered when the puck lifts off the ground and catches your shin. But such minor injuries cannot interfere with the birth of a new indoor sport.

AWAY FROM THE GRIND

Showing that they are very rational engineers and not at all affected by the traditional jinx that accompanies that unlucky day, Friday the thirteenth, Technology students made merry this past week-end with a big Dorm Dance in Walker and three fraternity dances in Back Bay on the fatal day and another fraternity dance Saturday evening.

Over 150 couples attended the function in Walker Friday, when Larr Floyd's Collegiate Ramblers played for dancing from 9 till 2 o'clock. Professor and Mrs. James R. Jack and Mrs. Leicester F. Hamilton acted as chaperones. At the midnight intermission, light refreshments of cake and ice cream were served.

Contrary to the announcement (Continued on Page Three)

Junior Prom Floral Decorations
 for this year are by
Harold A. Ryan Inc.
 581 Mt. Auburn Street
 University 1207
 May we have that next corsage or shoulder bouquet?
 Flowers Telegraphed

EMF Electrical Supply Co.
 130 Mass. Ave. Central Square
 Phone Porter 0250
 25% Discount on Desk and Reading Lamps
 'Cambridge Headquarters for Everything Electrical'

THE PEN THAT WON'T RUN DRY DURING LECTURES
CHILTON PEN
 CARRIES DOUBLE THE INK

TUXEDOS FOR HIRE
 STYLE — SERVICE — SATISFACTION
DISCOUNT TO TECH MEN
 Represented by Wm. Montgomery, Tech '34
E. F. P. BURNS INC.
 125 SUMMER ST., BOSTON

As We See The Movies

Only when such great stars as Lawrence Tibbet can gloriously be brought before the public do the "talkies" justify themselves. Where as only a few years ago the few of the elite, attending the opera, could appreciate the finest talent, talking pictures have brought the best of music before the people. And we certainly have much to be grateful for in Tibbet's latest picture, "The Prodigal."

There is no doubt that Tibbet was a great singer with the Metropolitan. Granted that the screen cannot reproduce the stage or the opera, Lawrence Tibbet remains just as great

in pictures. He holds his audience spellbound while singing "Without a Song" and later leading a negro gathering on the plantation, in a spiritual and in "Hallelujah." His rendering of a snatch of "Home Sweet Home" touches the heart.

The plot is very light, with Tibbet playing a part of a tramp, who, for some unexplained reason, is forced to leave home and wander. He returns home and becomes mixed up in a love affair with his brother's wife, but things are finally straightened out by his mother.

The part of a carefree young tramp suits Tibbet admirably. His singing seems to be animated by that very freeness which characterizes his part

and which is so different from the set, staid life of the others on the plantation. Many laughs are provided by the two comedians, Roland Young and Cliff Edwards, who in the picture are companion tramps to Tibbet, but they by no means carry off the show or attempt to make a burlesque of a beautiful picture.

The scene of the negro Thanksgiving barbecue toward the close of the picture is most compelling. It seems to catch these people amidst their true surroundings on that old Georgia plantation, and their natural gayety and singing seems to penetrate into the audience and make one feel that when Lawrence Tibbet asks, "Are you happy?" he too can shout, "Yes, yes!"

Away From the Grind

(Continued from Page Two)

which appeared in an issue of THE TECH some time ago, the lounges of Walker were not brightly gleaming with great floors of light but were instead cozily dark. This feature of the dance was said to be greatly appreciated by those attending.

Over on Beacon street on the same evening, Delta Upsilon fraternity entertained 100 couples at an open house dance with music furnished by Herb Lockwood and his Bay Staters. Major and Mrs. P. H. Ottosen.

Almost around the corner from that dance the Phi Gamma Delta fraternity

at its house on the Fenway held an open house dance where 15 couples danced to the music of Art Karle and his orchestra. After the midnight intermission when ice cream and cake were served, dancing was resumed and continued until 2 o'clock. Mr. and Mrs. Pennell Aborn chaperoned.

The only closed dance of the evening was given between the two houses mentioned when the members of Sigma Chi at their house on Beacon street enjoyed dancing to the music of the Techonians from 9 to 1 o'clock. Dr. and Mrs. Kirkwood chaperoned the twenty or more couples attending.

The only dance on Saturday was that given by the Dekes.

What the NEW HUMIDOR PACK

*means to Camel Smokers**



COMPARE a package of Camels with any other cigarette and note the difference in the technique of packing.

Note that Camels are completely enclosed in an outer transparent cover of moisture-proof cellophane and sealed air-tight at every point.

We call this outer shell the Humidor Pack. It differs from the ordinary cellophane pack and while it is egg-shell thin, it means a lot in terms of cigarette enjoyment.

It means, for instance, that evaporation is checkmated and that Salt Lake City can now have as good Camels as Winston-Salem.

While Camels are made of a blend of the choicest Turkish and mellowest domestic tobaccos, it is highly important, if you are to get full benefit of

this quality, that these cigarettes come to you with their natural moisture content still intact.

The Humidor Pack insures that. It prevents the fine tobaccos of Camels from drying out and losing any of their delightful flavor.

Aside from cheap tobacco, two factors in a cigarette can mar the smoker's pleasure:

Fine particles of peppery dust if left in the tobacco by inefficient cleaning methods sting and irritate delicate throat membrane.

Dry tobacco, robbed of its natural moisture by scorching or by evaporation gives off a hot smoke that burns the throat with every inhalation.

We take every precaution against these factors here at Winston-Salem.

A special vacuum cleaning apparatus removes dust and now the new Humidor Pack prevents dryness.

Check the difference yourself It is a very simple matter to check the difference between Humidor Packed

Camels and other ordinary dry cigarettes.

First of all you can feel the difference as you roll the cigarettes between your fingers. Camels are full-bodied and pliable. A dry cigarette crumbles under pressure and sheds tobacco.

If you will hold a cigarette to each ear and roll them with your fingers you can actually hear the difference.

The real test of course is to smoke them. And here's where the new Humidor Pack proves a real blessing to the smoker.

As you inhale the cool, fragrant smoke from a Camel you get all the mildness and magic of the fine tobaccos of which it is blended.

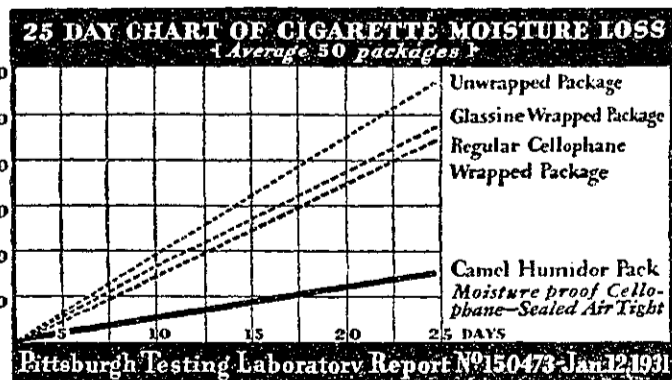
But when you draw in the hot smoke from a dried cigarette see how flat and brackish it is by comparison and how harsh it is to your throat.

If you are a regular Camel smoker you have already noticed what proper condition of the cigarette means.

But if you haven't tried Camels in the new Humidor Pack you have a new adventure with Lady Nicotine in store.

Switch your affections for just one day, then go back to your old love tomorrow if you can.

R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C.



The Pittsburgh Testing Laboratory chart above graphically shows you that only the Camel Humidor Pack delivers cigarettes to you in prime condition

*** smoke a Fresh cigarette!**

OFFICIAL BULLETINS OF GENERAL INTEREST

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 Application" is being given during the second term under the auspices of the Department of Mining Engineering and Metallurgy, by Peter P. Alexander, Research Engineer, Thomson Research Laboratory, General Electric Company.
Open to students and members of the instructing staff.

Physics and Physical Chemistry
Harvard University and Massachusetts Institute of Technology
Monday, March 16, 4:45 P.M.
Cruft Laboratory, Harvard University

Harvard Physical Colloquium: "Demonstration of a Geiger Counter Tube". Dr. Egon Lorenz; "Doubly Charged Molecules in Canal Rays", Dr. Richard Tousey.

Tuesday, March 17, 12:00 M., Room 10-275

A journal meeting in Organic Chemistry will be held. Mr. Valentine Harrington: Bucherer and Hoffmann's work on "The Reaction of Sodium Sulfite with Aromatic Amino- and Hydroxy-Compounds."
Professor E. H. Huntress: "The Chemiluminescence of Some Organic Compounds."

Open to students and members of the instructing staff.

Infirmiry List

Charles C. Bell '33.
Edward Gamble, Employee.
Douglas F. Illian '31.
Howard H. Imray, Jr. '32.
Charles F. Payne '33.
Mendel N. Pack, G.
At Brooks Hospital

James H. Burnham '34.

BEAVER CLUB PLEDGES

Pledges to the Beaver Club are requested to attend a short meeting this afternoon in the Main Lobby of Walker Memorial at 5 o'clock.

**Boxers Lose Last
Dual Meet Against
N.Y.U. by 5-2 Score**
Frosh Lose to New Hampshire
First Year Team, Scoring
One-Half Point

In their last dual meets of the season, the Varsity and freshmen boxing teams were defeated last Saturday, the former by New York University 5-2, and the latter by New Hampshire freshmen 5½-½. Both meets were staged on the rival's home grounds New York and Durham, N. H.

As has been usual all year, Captain Carl W. Orleman '31 and Peyton C. Cooper '33 were only victors for the Varsity. This was Orleman's sixth straight win and Cooper's fifth. Cooper scored one of the most decisive decisions of the meet, flooring his opponent three times during the bout and coming close to a knockout victory. Orleman had Aronsen, his opponent, staggering at times during the match and was given a decision by the officials.

Maretta Only Scorer for Freshmen

In the freshman meet, Maretta was the only one able to account for any M. I. T. points, gaining a draw with Johnson of New Hampshire in the 115 pound class. The best bout of the evening was in the 135 pound class, Carey of the Beavers and Lang of the Wildcats staging a fast draw for the first two rounds, with Lang gaining the final decision because of his aggressiveness in the third round. This is the concluding meet of the season for the freshmen, who have won two of their four encounters this year. They defeated Harvard and Dartmouth freshmen, but lost to Yale. Next Saturday the Varsity will travel to State College, Pennsylvania for the Intercollegiate.

Summaries of the meets:

Varsity
115-pound—Orleman (T) defeated Aronsen (N.Y.), decision.
125-pound—Levy (N.Y.) defeated Kaiman (T), decision.
135-pound—Slomowitz (N.Y.) defeated Gambino (T), decision.
145-pound—McKeon (N.Y.) knocked out Price (T), 35 seconds.
155-pound—New York by default.
165-pound—Cooper (T), defeated Rankin (N.Y.), decision.
175-pound—New York by default.

Sports Results for Week of March 8

March 11—Varsity Fencing: Harvard 15, M. I. T. 2.
March 13—Varsity Fencing: Norwich 11, M. I. T. 6.
March 14—Gym Team: Navy 36, M. I. T. 18.
March 14—Boxing: N. Y. U. 5, M. I. T. Varsity 2.
March 14—Boxing: New Hampshire freshmen 5½, M. I. T. freshmen ½.
March 13-14—Wrestling Intercollegiate, New England: Varsity; Tufts 35, Harvard 32, Brown 16, M. I. T. 6.
Freshmen; Harvard 30, Brown 24, Tufts 24, M. I. T. 18.
March 13-14—Swimming Intercollegiate, New England—Springfield 24½, Brown 23, Worcester Tech 16, Wesleyan 14, Williams 13½, Bowdoin 9, Amherst 7, M. I. T. no score.

Sports Events for Week of March 15

March 21—Gym Team Intercollegiate, Temple U., Philadelphia.
March 21—Varsity Fencing, I. F. A. semi-finals.
March 21—Boxing Intercollegiate, Penn State.

surged until at last he fought his way to the window.

An enemy invasion? Sammy and Katie playing penochle in the mud? Not at all! Just a cute (meaning: kissable, not bowlegged) stenog hurrying to entrance 69. Rosy, wind whipped cheeks; lashes be-jewelled by glinting raindrops; her whole self coyly curved beneath the protecting spread of a green umbrella, she fought the storm while even the hard hearted Lounger's tough cardiac fluttered. Gosh, the Lounger is getting poetic—it must be the influence of approaching Prom Night.

Old days depart, old friends are lost, customs change; all is sadness. Sob, sob, sob. It is with infinite regret that the Lounger announces the passing of the Wellesley tradition. The time once was when "he and she" meant Wellesley and Tech, when week-end dates at the girl's college resulted in weekly trips to the hock shop made famous in that ballad "At the Sign of the Three Brass Balls." Never more, as the Raven insisted, for believe it or not only two Tech men

were included in the official list of guests at the Wellesley Senior Prom. The Lounger fought valiantly in an attempt to strengthen the weakening bonds and appealed to the Musical Clubs for aid. But the aid was not forthcoming and the Lounger is aging. Now all is lost. "The Queen is dead. Long live the Queen."

Junior Prom is the source of many varied types of heart burns. When a penniless Engineer sinks his last dime and then mortgages the old slide rule in order to complete a financial budget which aims at making the night a Night of Nights, he finds himself intimately concerned with the health of his femme. The men wise enough to bid healthy, hearty, robust, muscle factory products may be distinguished by their care-free and nonchalant air. Most of the men are eating light. Some have given up the habit until all debts are squared. The Lounger can be spotted as the guy that lives on spinach and water with a raisin for desert. Believe you him, that does not aid a man's virility—or at least the thayth Thyd.

POP SCIENCE LECTURE FEATURES X-RAY:

(Continued from Page One)
instrument, the Geiger counter spectrometer, was brought into an X-Ray beam. Gamma rays emitted from tiny piece of radium brought near this tube produced a similar sputtering. Distance of less than one 100,000,000th of an inch between atoms in a gas can be readily measured. Means of this instrument, Professor Warren showed.

Just how a diamond should be put together in definite arrangement of its carbon atoms was explained to the speaker in case members of his audience would like to go home and try it. Large laboratory models of colored balls wired together represented the atomical structure of various crystals.

Great spears and needles of beautifully colored crystals shot out of the screen before the eyes of the audience in a spectacular projection of the microscopic growth of crystals.

Walton Lunch Co.

420 Tremont Street
629 Washington Street
30 Haymarket Square
5 Pearl Street
242 Tremont Street
1083 Washington Street
44 Scollay Square
332 Massachusetts Avenue
19 School Street
437 Boylston Street
1080 Boylston Street
34 Bromfield Street
540 Commonwealth Avenue
204 Dartmouth Street
105 Causeway St.

Allston
1215 Commonwealth Avenue
Cambridge
78 Massachusetts Avenue



There has been an influx of beauty in our austere technological halls. The Lounger has moped around in a deuce of a fog with his neck on a swivel trying to dope out the reason for the sudden advent of decorative femininity. At last he traced the streaming pulchritude about the corridors, and spotted their destination—Uncle Horace's new supply window. Hence, or if you insist upon a classical expression, ergo, it is evident that we have always been blessed with sweet young things around and about but they have remained secluded in scattered offices for professional delectation only. Now, out to the light of day they come in pilgrimages to the supply window and the students stare and admire, thanks to Uncle Horace.

Speaking of female beauty (and what is a better subject?) there is one sweet young thing in particular who has come to the Lounger's attention—the old rake. She is the "Sweetheart of the Steam Lab." One of our usual New England spring days with a howling gale was playing the devil with the country side and a Northeast-er was making life uncomfortable for the antique old fellow, the Lounger. A nice hot boiler in the steam lab attracted him, and over it he draped his wet and chilled carcass. As gentle slumber enveloped him, he heard a loud yelp and next a wild stampede to the windows. To life, to arms, sprang the old grey-beard and off to battle he

DU CO HOUSEHOLD CEMENT

The Handy Adhesive
With a Thousand Uses

THE next time you repair your favorite fishing rod, pipe or fountain pen try Duco Household Cement—a waterproof, transparent adhesive made by du Pont—the makers of Duco. You'll be amazed to see how easily and speedily it does the job.

You can use it for making or mending on wood, linen, metal, china, marble, jewelry, ivory, celluloid or paper. It's fine for making photograph albums, scrap or note books, and portfolios because it doesn't cause the pages to shrink or to curl. It mends with the same satisfactory results torn sheets of music, furniture, wall paper, or upholstery.

Duco Household Cement is packaged in a tube in a size that may be carried conveniently in your suitcase or in your car's first aid kit on your next motor or camping trip, to insure against emergencies. It excels for repairing canoes, patching canvas tents and luggage where permanence and moisture proofness are vitally important and essential qualities.

The easy application, quick drying and excellent adhesive qualities of Duco Household Cement have made it indispensable in many homes, schools and offices throughout the country. The best way to assure yourself of these remarkable properties is to try a tube for yourself. We suggest that you fill in the coupon below and mail it to us with twenty-five cents in stamps or coins, for a full size tube.

E. I. du PONT de NEMOURS & COMPANY, Inc.
Dept. C. P. C.—Parlin, New Jersey.

For 25 cents enclosed send me one large tube of Duco Household Cement.

Name

City..... State.....

SIMPLEX WIRES and CABLES

INSULATED WITH RUBBER
PAPER OR VARNISHED
CAMBRIC

SIMPLEX WIRE & CABLE CO
Manufacturers

201 DEVONSHIRE ST., BOSTON

BRANCH OFFICES
CHICAGO SAN FRANCISCO
NEW YORK CLEVELAND
JACKSONVILLE

