

H. W. L. Dana Speaks On Shaw In Moscow For Liberal Club

Wells, Russell, Dreiser and Lewis
Cited As Converts To
Communism

"George Bernard Shaw is the greatest of the modern converts to Communism," claimed Professor H. W. L. Dana of Harvard, speaking on "With Shaw in Moscow," under the auspices of the Liberal Club yesterday afternoon. Theodore Dreiser and Sinclair Lewis in America, who have been lukewarm on the subject of Communism, are growing more and more sympathetic. H. G. Wells and Bertrand Russell, in England, were uncertain ten years ago of how they felt about Russia. Since then, in the last year, both have been in America. Now, Wells is a confirmed Socialist, and Russell believes there is no other way besides Communism of dealing with world affairs, according to the speaker.

Emphasizing the important place of Communism in the world today, Professor Dana pointed out that more than one-sixth of the total surface of the earth is included in the U.S.S.R. More than forty different languages are spoken over this vast area, and the central authority encourages the autonomy of the various units, contrary to the attitude that was taken by the Czarist regime. Russian, however, is the common language of exchange, said Professor Dana.

Shaw Always Controversial

Shaw, said the speaker, is so intellectually alive that he always assumes a controversial attitude, even when he is

(Continued on page four)

VOO DOO APPEARS MONDAY CARRYING NEW COVER DESIGN

Satire On The Lounger, Written
By Robert Henry,
Outstanding

BACK NUMBER FEATURE

All decked out in its new prize-winning design, *Voo Doo* presents its May issue Monday with the title, "Back Number." In the middle of the modernistic cover design is a back view of a girl, under which appears the notice, "Answer questionnaire on page twelve to get this girl's telephone number." On page twelve, a list of queries is headed by "Do you favor electioneering? (Vote No if you mean Yes)."

"The Sponger," satirical take-off from THE TECH'S renowned column, appears again this month after making its debut in the April issue. This clever concoction, handiwork of Robert Henry, Jr., Managing Editor, is the wittiest piece in this issue, and rates with the best of Phosphorus's offerings at any time.

Rallying to the cause of economy, *Voo Doo* uses no new cuts in this issue, but makes an unusually good showing with cuts collected from past issues. Their last censored issue, the Back Bay issue of 1927, supplies several spicy morsels. Also, there is a full page cut from Phos' last Circus Issue, which also appeared in 1927.

Elliott L. Whitaker '32 is the designer of the cover which won *Voo Doo*'s recent contest and which appears for the first time on the coming issue. This design, with modified color combinations, will be used on Phosphorus' next three consecutive offerings. The distinctive modernistic pattern will attract many readers to the magazine.

On the editorial page appears an authentic letter from a Senior at Wellesley in which the girl describes her reactions to a typical Technology man. Few students, indeed, will not be interested in reading this elucidating epistle. Another highlight of the issue is a fictitious news story describing a "record-breaking riot of Sargent girls." To quell this uproar, so the story goes, His Honor, Mayor Russell of Cambridge, was obliged to call out the Regular Army.

Spoke on Shaw and Russia As Speaker of Liberal Club



PROF. H. W. L. DANA

Friday The Thirteenth Is Today. Watch Your Step!

Today marks the thirteenth of May. Friday the Thirteenth! This is the day for all good men, not to come to the aid of their party, but to watch their steps, laugh at the prof's jokes in a most hearty manner, and to cross their finger when they see the instructor handing back exam papers.

What will happen to those poor unfortunates who will be harassed with exams today? What will be their fate, laboring under the difficulties of the unlucky day? And Ye Scribe has noticed that there is a black cat lurking in one of the alleys off Ames Street. And he just remembers that he has an 8.04 hour quiz this afternoon. How much red crayon will be left after the professors finish marking today's crop of quiz papers?

TRACK SQUAD MEETS STRONG WESLEYAN TEAM TOMORROW

Dick Bell Will Have Strong
Competition In Dashes
From Wilcox

KEARNS IN TWO MILE RUM

Wesleyan's powerful track squad will be the next one to face the surprising Institute team. As a result of their excellent showing in the Greater Boston Intercollegiate last Saturday the Technology runners will enter the meet confident of victory. The meet, which is tomorrow afternoon, will be held on the Wesleyan grounds at Middletown, Conn.

Dick Bell will receive his first real competition of the season when he stacks up against Wilcox of Wesleyan in the 100- and 220-yard dashes. Neither of them has tasted defeat in the 100-yard dash this spring. In his last three meets Wilcox has won this event in either 10 or 10 1-5 seconds. He will provide a real test for Bell and if Bell defeats him, his reputation will be more secure than ever.

Kearns Favored in the Two-Mile

If Jack Kearns comes anywhere near approaching his record-breaking performance of last Saturday he will walk away with the two-mile run. Keyser seems to be the Connecticut college's best bet in this event. His recent times, however, have been far below Kearns'.

Captain Jewett, Schwarz, and Muliken will uphold the Institute in the 440-yard dash. The man they will have to beat is Richards, who has taken first honors in this event in all of Wesleyan's meets this spring. Jewett should give him a good run for his money.

Wesleyan Enters Nevius

Wesleyan has a double threat in Nevius, who runs both the mile and the half-mile.

(Continued on page two)

Six Papers To Be Read for Stratton Prize Class Day

Three Semi-Finals Necessary To
Determine Finalists
In Contest

The six finalists in the Stratton Prize contest who will present their papers on the morning of Class Day to determine the best student paper of the year, are Norman O. Paquette '32, Course II-G; Arthur M. Orne '32, Course III; Herbert M. Wagner '32, Course VI-C; Bernard S. Gould '32, Course VII; Elliot D. Giddon '32, Course VII; and Jacob Millman '32, Course VIII. So great was student interest in these prizes that it was necessary to hold semi-final readings for entrants in the contest on three different days to determine the six best papers that would be read on Class Day during Senior Week, when the award for the best paper will be made. Professors Samuel C. Prescott and William H. Timbie are in charge of the contest.

Established by Dr. Stratton

One of the last acts of the late Dr. Samuel W. Stratton was the establishment of the Stratton Prizes to be given for the best student scientific papers presented before meetings of the student professional societies during the school year. The prizes were established expressly to encourage adequate expression of detail in language which would make it comprehensible to the layman, a quality which engineers in general lack. Papers are limited to fifteen minutes' reading time.

Course XVII Has Building Leaders On Its Committee

Student Members Of A. G. C.
Meet Prominent Men In
Field Of Construction

Six prominent members of the construction industry were guests of the Department of Building Construction Tuesday when the Visiting Committee of Course XVII were at the Institute to confer with Administration and Departmental heads and to consider the work of the department with the view to suggesting how the department may better fit young engineers to enter the construction field. Representatives of builders, financiers, and real estate men are on the Committee, which includes leaders in each of the fields mentioned.

Students Meet Leaders

Student members of the newly-formed M.I.T. Student Chapter of the Associated General Contractors of America and others had the opportunity of meeting these leaders in construction and of talking with them at a meeting held during the afternoon.

At this time Mr. A. E. Horst, president of the A. E. Horst Construction Company of Philadelphia, spoke briefly, saying that the Institute had the best facilities in the country for teaching Building Construction and that the course as presented here is the best he has seen. He also urged the students to learn to think and speak on their feet.

Gerhardt F. Meyne, president of the Gerhardt F. Meyne Company of Chicago, spoke, urging the students to uphold their standards of conduct at all cost. If a man steadfastly refuses to deal with those who would compromise his honor, the fact will soon become known and he will not be bothered with minor grafters seeking gratuities.

On the Visiting Committee of the department, in addition to Mr. Horst and Mr. Meyne, are the following representatives of the construction industry: Wilmot R. Evans, treasurer of the Boston Five Cent Savings Bank; T. W. Ryan, Jr., of Thompson Starrett Company, New York City; L. C. Wason, president of the Aberthaw Construction Company of Boston; and Col. Joseph Willcutt, retired, of Boston.

TECH OARSMEN TO BREAK HOODOO AGAINST CREWS AT ANNAPOLIS REGATTA

Prospects Are Bright For Graduates In Course XV

In spite of the present unfavorable conditions of the business world, Professor Erwin H. Schell, head of the department of Business and Engineering Administration believes that at least three-fourths of the graduates in his department will have secured positions by the end of the school year.

Although Commencement is still nearly a month away, 45 per cent of the Seniors in that department have been offered positions, and approximately one-third of the remainder are in the midst of favorable negotiations for positions.

Of the graduate students in Business and Engineering Administration, 55 per cent have already been assured employment, and two-thirds of the remaining number have good prospects of obtaining positions.

Tennis Players Continue Streak Winning Matches

Defeats Boston College Team
7-0: And Smashes B. U. To
Tune Of 7-2

Determined to make this season the most successful in recent years, the varsity tennis team continued its series of wins by taking two of the last three matches. Up to last week, the team won two and lost one, but the match lost to Wesleyan made the team score two-all. The match with the Wesleyan representatives was a heartbreaker. At the end of the first eight matches, the Institute and Wesleyan

(Continued on page three)

Technology Graduates In Prison In India For Anti-British Activities

India Independence Movement
Gaining Force Rapidly
Among Masses

At least two Technology graduates are in prison in India today because of their activities in the anti-British movement, according to Ramesh Mehta, native of Gandhi's home town, and graduate student at the Institute. N. M. Shah and T. M. Sheh, who took their Master's degrees in Electrical Engineering in 1931, are among the many Nationalists in jail today. The policy of the Indian National Congress and the present condition of India were described in the course of an interview with Mr. Mehta.

Although Gandhi's anti-British party did not get started until 1914, it controls the Indian National Congress today. Its Congressional majority is, however, but a slight indication of its hold on the masses of Indian population, according to Mr. Mehta. Peasants, capitalists, and professionals alike are working for Indian independence. Seven hundred thousand villages with a population of less than one thousand are in line with the movement. Indian merchants and capitalists are furnishing the financial support. Sixty thousand people, mostly educated men, are in prison for their political activities.

Flag-Hoisting

Flag-hoisting ceremonies are held at frequent intervals by the National Congress, in order to crystallize the sentiment of the Indian people. On these occasions the masses gather in thousands to raise the prohibited flag. Police invariably arrive with their sticks to disperse the crowd. But the Indians have learned to take their punishment and stand by their

CREWS LEAVE FOR ANNAPOLIS RACES; FOUR CREWS MEET

Varsity, Jayvees, and Freshmen
Row Against Opponents
On Saturday

NO CHANGE IN SEATING

Three Technology crews entrained at 9 o'clock last night for Annapolis. On the same train was the Harvard squad also bound for the Severn to race in the four-cornered regatta against Navy and Penn tomorrow. The crews are due to arrive at Annapolis this morning and are expecting to get in two trial runs to put on the final touches before the race.

Coach Bill Haines is planning to stick to the seating which he used in the Princeton race last week, a lineup which proved satisfactory except for its apparent trouble with the shallow water and cross wind which was encountered.

Time trials have shown that the Harvard crews are much improved since their last race with the Engineers two weeks ago. The varsity is reported to be much smoother than previously, and they are expected to be even smoother by tomorrow. Charlie Walsh, Navy coach, is going to have his idea of two varsity eights severely tested in tomorrow's engagement. The Midshipmen got off to a good start when they pulled in victories over Princeton and Columbia, but Syracuse turned up with two crews that were just a bit better and beat them at their own game by winning both races. The exact power of the Navy crews cannot be guessed until it is known whether or not Walsh decides to establish a definite first-string boatload.

(Continued on page five)

flag, explained Mr. Mehta. "Non-resistance has taken a surprising hold on the minds of the Indians," he states.

The disbelief in violence is beginning to spread even to the army and the police. Mr. Mehta witnessed instances in which the police merely made a pretense of attacking the people. He described an instance in which a whole battalion was court-martialed for refusing to fire on the insurgent populace in a frontier uprising.

Economic Policy

Economic measures, more especially the boycott, form the basis of the anti-British policy, according to Mr. Mehta. In March 1931, only a short time after it had passed the resolution for complete independence, the National Congress commenced its well-known action against the British salt monopoly. Gandhi and members of the Congress were the first to break the law which forbids the Indians to obtain their salt from any of their own deposits or at the seashore.

A campaign against the land revenue tax is well under way, stated Mr. Mehta. It is surprising, he added, to see the wretched peasants quietly allowing officials to carry off their scanty furniture and their cattle because of their refusal to pay the tax.

The boycott on English cotton goods is another of Gandhi's economic measures. Picketers are stationed in all markets to dissuade customers from buying British goods. This boycott has seriously affected the Lancashire mills, since India is their chief market. It is in connection with this boycott that Gandhi has urged all Indians to spin their own cotton. He is not opposed to large-scale or modern

(Continued on page five)

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A GUIDED CIVILIZATION

FOR many years, in fact for a century or more, the engineer worked in a world that required his constant effort to meet the requirements of his civilization. He worked at full speed in the developing and producing of new devices which had an almost continual market. So much time was taken in this process of development and manufacture for an eager and seeking public that there was little time for the consideration of what effect all this creation had on the civilization in that part of the world in which he happened to live and work.

Just at the present time there is a period of decreased business activity; no longer is the public absorbing all the products of the energy of the engineer. Feverish activity is not necessary to supply the demand. There is now time for the engineer to consider our civilization and to try to see where it has come from and where it is going. Calling attention to this leisure that the engineer now finds, Joseph W. Barker '16, Dean of the School of Engineering at Columbia University, in speaking before Tau Beta Pi Wednesday evening, said that while engineers and especially young engineers are considering our civilization, they must realize that civilization has proceeded to its present point with no definite plan and guided by mob activity. Whether we shall continue to live in such a civilization or whether we shall develop one guided in a general way by some organized plan depends on the young men of today. It is our problem. The present-day inactivity affords the time to consider this serious matter of what kind of a civilization we shall have. Men, especially young men, must make a decision.

INEVITABLE HUMAN TENDENCIES

THE annual spring examinations are coming in the immediate future. The scholastic ratings will be given on the regular reports, and soon after will appear the published averages for the various campus groups, including the fraternities and the Dormitories. Unless there has been a marked change in the fraternity endeavors to acquire high marks, it is likely that the Dormitories will again lead in the scholastic ratings.

Generally speaking, it is probably true that fraternities stand lower in scholarship than any other group in the institutions of higher learning in this country. In speaking of the reason for this, James Anderson Hawes, author of the book on college life, "Twenty Years Among the Twenty-Year-Olds," has recently said, "This condition is brought about, in my opinion, because of social customs and tendencies inevitable with human beings." The majority of people want to belong to some group that will raise them above the level of the general public, and having joined some group, such as a fraternity, this desire to carry on is expressed by participation in extra-curricular activities. A man engaged in such activities must necessarily devote some time to them and accordingly less time to the pure scholastic pursuits. In the group, the results of reduced time for studies makes itself felt in a lower scholastic standing for the body.

This inevitable tendency of the human to want to be just a little above the average probably results in many men joining fraternities, and when the standing of a house is judged by the activities of its members, it is only natural that men should participate in activities and that scholastic ratings should be lower. Extra-curricular work has its place, but so do studies. A proper balance must be struck; in the meanwhile custom and human tendencies dictate that the fraternity men have lower scholastic ratings.

WESLEYAN TO MEET M. I. T. TRACK TEAM

(Continued from page one)

The times which he has turned in, however, cannot compare favorably with those of Bob Mann in the mile and Goochy Smith in the half-mile.

Whoever runs the low hurdles for Technology will have a formidable opponent in Snyder, who has been winning this event regularly for Wesleyan. They are not so strong in the high hurdles, so King Crosby should pick up a few points in this event.

Strong Opponents for Wrigley

Wesleyan has two good men in the broad jump in Odell and Terrill. Odell is the strongest and will give Wrigley a good battle for first place. He is also Wesleyan's best high jumper, while Terrill stars in the shot-put.

Wesleyan lines up just about as strong as the Institute in the rest of the events with the exception of the javelin. They have no one who can even approach Robertson's mark with this weapon.

If the Technology runners can produce a few second and third places, they should walk away with the meet, since they are certain of coping their share of first places. Coaches Hediund and Bowie are handicapped tremendously by the lack of material. It took just fourteen Technology runners to capture third place in the Greater Boston meet last week. If there had been a larger squad the Institute might have fared even better.

While the varsity is being entertained by Wesleyan, the freshmen will be going after their first win of the season at the expense of the New Hampshire freshmen. A large crowd is expected to turn out.

TRADING OF COLLEGE CONNECTIONS BARRED

Eastern Colleges Base Decision On Survey Of Summer Jobs

When asked to comment on the announcement [made recently by A. B. Crawford, President of the Eastern College Personnel Officers Association and Director of Personnel Study at Yale, that 27 Eastern colleges would take steps to prevent students from trading their college connection while selling goods during the summer vacation, Pennell N. Aborn, Employment Secretary of the T. C. A., stated that the decision to curb the use of the so-called "sympathy appeal" was based upon a recent survey of summer selling jobs completed by a committee of the Association.

More than one hundred students from the leading Eastern colleges gave information for the basis of the survey. Significant facts determined by the survey are: That less than fifty per cent of men reporting stayed on their jobs more than ten weeks; that earnings and profits are comparatively low, the average individual profit being only 21 cents per hour; and that this amount is much less than the claims made by certain companies to the effect that canvassing yields a higher return than other kinds of summer employment.

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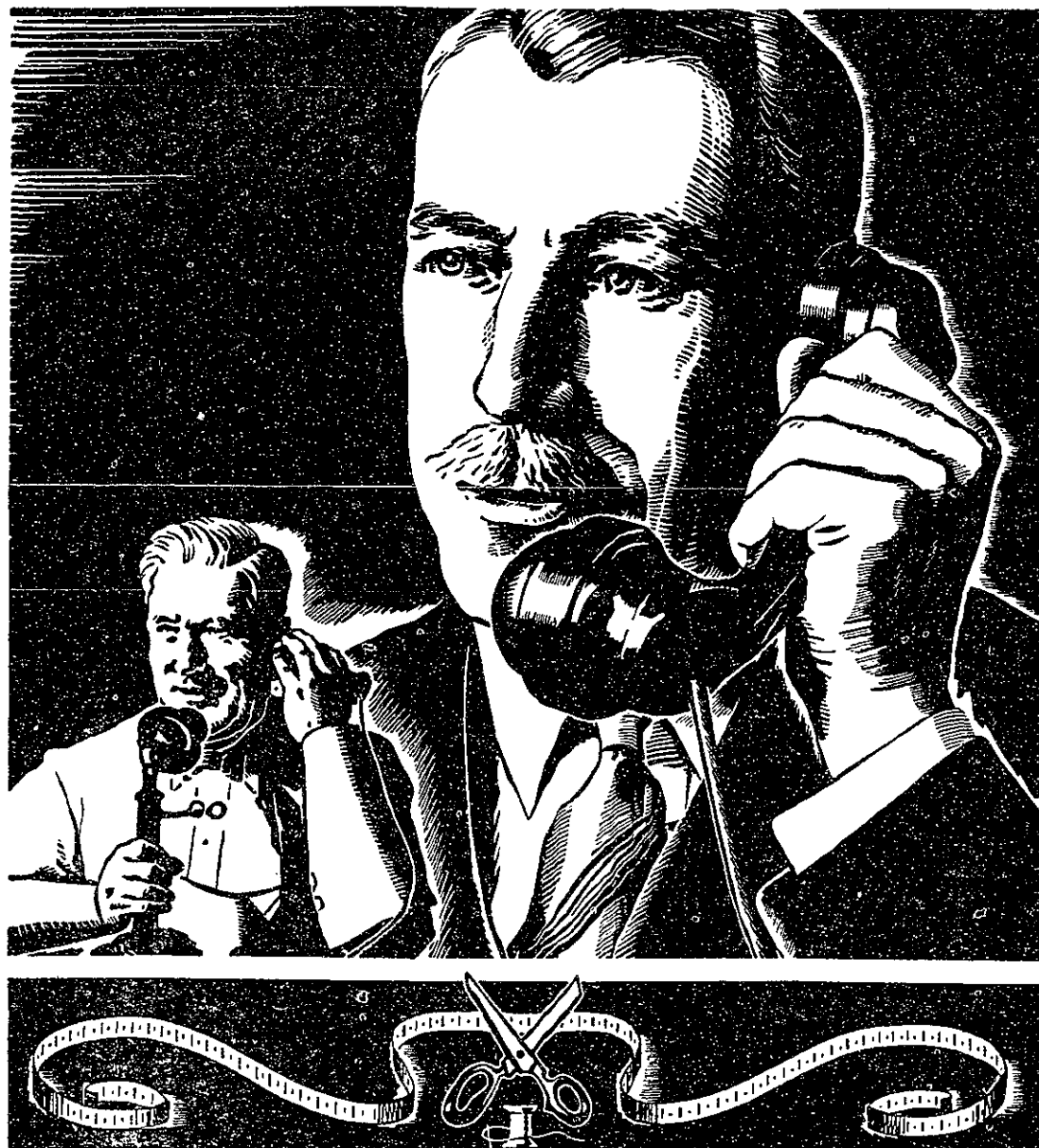
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TENNIS TEAM WINS OVER B. U. BY 7-0

(Continued from page one)

teams were deadlocked four-all, and in the final match, which was a doubles, the Institute players were outplayed.

With the defeat at the hands of the Wesleyan frosh, the team entertained the Terriers from Boston University and sent the frosh back to the Institute, defeated to the tune of 7-2. This victory was followed shortly by another at the expense of the Eagles from University Heights. The Boston College players were nipped badly by the Beavers, as is indicated by the score, 7-0.

Captain Feustel, who is slowly regaining his old form, won all his matches in the last four meets. Playing an invincible game in the singles and a whale of a doubles game—being matched nicely with Harris who has done his share towards winning meets—the versatile Beaver will lead his pack Saturday against Brown. Other players on the unusually well-balanced Institute tennis team who do their utmost to “bring home the bacon” are Reagan, Ross, Koerner, Spragens, and the two former members of last year’s freshman team, Eder and Lammers. If the players live up to all of Coach Jack Summers’ expectations, the varsity will win from Brown and will defeat Williams in the following meet.

Quite unlike the more illustrious varsity team, the freshman team was severely beaten by the Harvard yearlings. The defeat was the most severe suffered by the freshman team so far this season. However, it will attempt to avenge itself at the expense of the Cubs of Brown.

ONE MORE GAME FOR ALLIGATORS

Because of the rapidly approaching examinations, the Alligators, who last Saturday won their first baseball game, will probably be able to play but one more contest. The game will be against the Harvard junior varsity nine, and will take place next Thursday afternoon, unless the team’s members consider that date too late in the season.

Yesterday afternoon, the Alligators played a practice game with Wentworth Institute which lasted only five innings. No accurate score was kept, but the count was about 8-8. The Alligators’ official record, however, is still clear, the victory over Boston University being the only other game.

Freshmen Topple Seniors

In the interclass race, the freshman team furnished the surprise of the tournament by downing the previously undefeated Seniors, 2 to 1. Bob Forster, who has pitched almost all their games, bested John Leslie in a close pitching duel. Since the Juniors defeated the Sophomores Wednesday to remain in the running for the title, a playoff between the Juniors and Seniors will take place next Monday afternoon. Both teams have been getting excellent pitching of late, and the deciding game should be close.

Standing of the teams to date:

Class	Won	Lost
1932	3*	1
1933	3	2
1935	2	3
1934	1*	3

*Played tie game.

VARSITY STICKMEN MEET DARTMOUTH

Seek Second Victory Of Season At Hanover; Freshmen Are Beaten 2-1

Technology’s varsity lacrosse team plays its final game of the season tomorrow afternoon, travelling up to Hanover to meet a strong Dartmouth squad. Although the home team is the favorite, the Engineers will be sure to put up a stiff battle. Coach Robinson has been getting in some heavy practice sessions of late, with the result that the team’s play in the last two games has been greatly improved. The record now is one victory in eight games.

Following is the starting lineup: the Beavers will use in quest of their second victory: Borger, g; Geil, p; Duncan, cp; Schneck, fd; Coffey, sd; Wilson, td; Hale, c; Ansel, ta; Way, sa; Asch, fa; Zouck, oh; Safford, ih.


Freshmen Lose Overtime Game

Yesterday afternoon, the freshman twelve, showing a surprising improvement, lost a heartbreaking 2-1 decision to the Tufts freshmen. The Engineers were the first to score, Leventhal netting the ball midway through the second half. About six minutes before the end of regular playing time, the Jumbo yearlings tied it up, the deadlock lasting until the whistle. A ten-minute overtime session was decided upon, and Tufts succeeded in putting in the winning counter. Haberland at goal, and Forster and Leventhal on the attack, were the Engineers’ stars.

This Saturday the freshmen also end their season, meeting a powerful Harvard squad. Since the Crimson yearlings

downed the Brown freshmen, who triumphed over the Beavers by 16-0, the chances for victory seem rather slim, in

spite of the recent improvement. The team has yet to win a game, having lost the two matches played thus far.



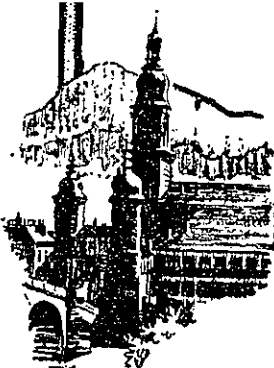
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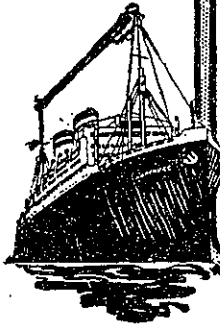
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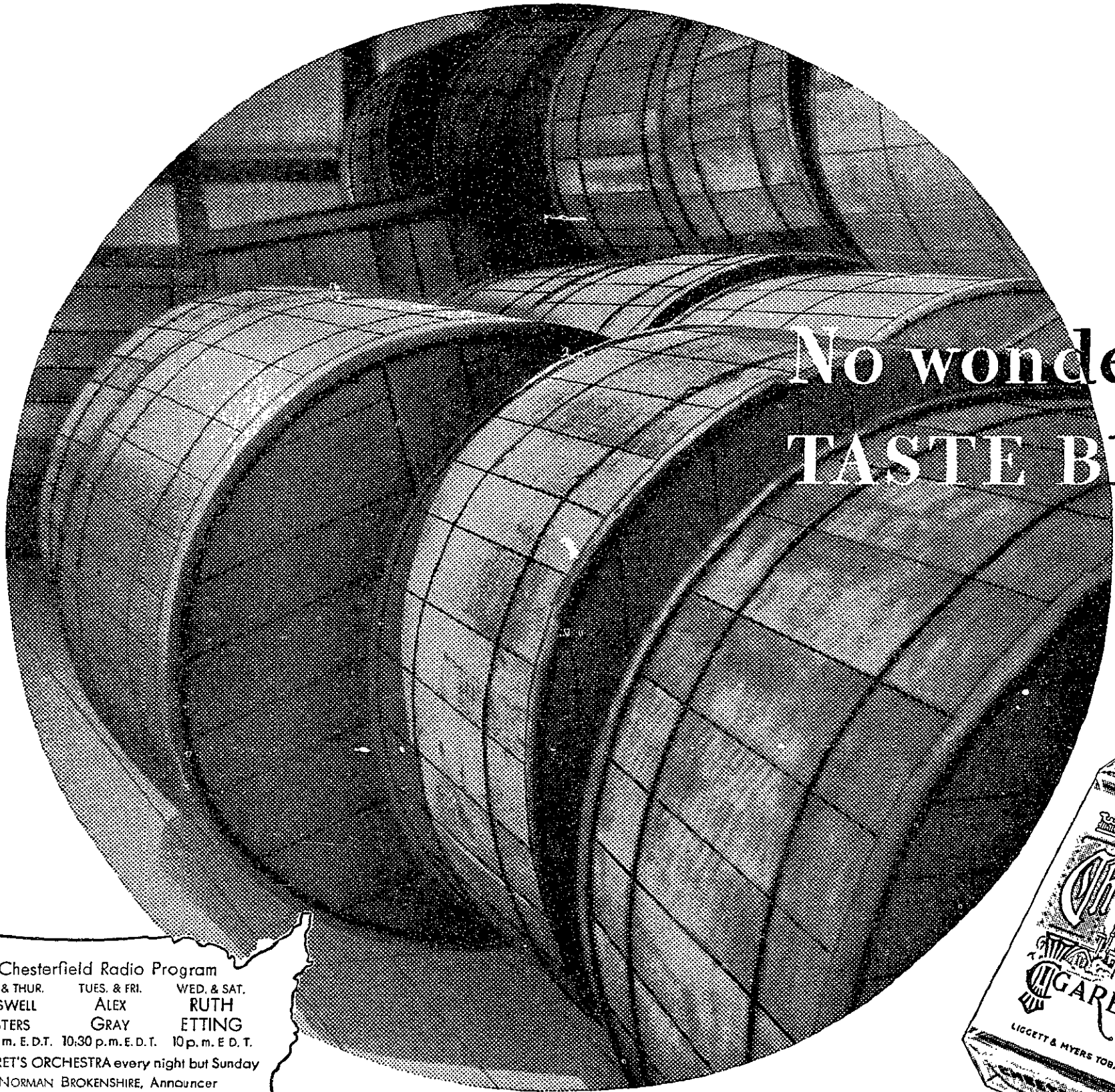
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Mystery Clouds Removal Of Charles River Dredge Opposite Technology

Barge Here Since Last August Disappears; Turbine Pump Was Wink

Off the grey clay and clamshell banks which have been slowly appearing opposite the Institute since last August, stood the barge *Freeport*, Captain Andrew Berg, funnels smoking, quaking with the roar of its motors, rocks and pebbles clattering through the long rusty pipe which extended fifty yards from its side.

The barge left its position beside the Harvard Bridge recently, and it is rumored that its turbine pump was giving way. The pumps, which usually serve about six months, were probably weakened from the continued vibrations.

The presence of the barge represented the fulfillment of the vision of public-spirited citizens of one third of a century ago. The original Charles River was a tidal horror, and in 1903 it was decided to make a fresh water basin of it by the construction of a dam near the Longfellow Bridge. The beautification of the basin has continued since that time, until now it is planned to make it the most beautiful water park in the world, featuring sloping grassy banks, shade trees, and lagoons in which canoes and light boats will find shelter from cross winds on the river.

Present Project Protested

When the present project was suggested, it met with serious opposition from people living along the Charles River on two scores. First, they felt that materials brought to the surface by dredging the bottom would be obnoxious, that health would be endangered; and secondly, that the noises of the dredge would be objectionable. However, the opposition was overcome, and it is expected that this program will be by no means a final one in the beautification of the historic Charles.

One of the immediate reasons for the project, besides the beautification of the river, is the present poor rowing course. This is explained by the fact that the stone walls which now line a great part of the river tend to reflect the rolling waves kicked up by cross winds and convert them into short choppy waves which make rowing difficult. When a large boat passes up the Charles, its wake is converted into this same type of wave, and rowing is halted for sometimes as much as twenty minutes. The plan now being executed will remedy this trouble by providing sloping banks. Rolling up these, the wind waves will expend all their energy, and there will be no reflection.

Putting the Bottom on Top

An odd contrast is presented by the well-kept Esplanade walks and the yards of waste clays which extend from fifty to one hundred feet from shore. However, this broken expanse will eventually be covered by a wide strip of green grass. The clay is used as a filler, in preference to the undesirable rubbish which contractors were to supply at thirty cents a cubic yard. The filling in is done by no spoonful-at-a-bite dredge, heaping slimy masses on clumsy scoops to be towed to the sea, but by a somewhat new system. The barge is equipped with a suction pump connected to a pipe which lies at the bottom of the basin. The pump itself is of the turbine type, and electrically driven. On the barge near the Esplanade boat house, a 1,000 h.p. motor lifts anything that will fit into the suction tube, from sand to cobblestones, whirls them around in the turbine, and flings them through the long delivery tube. The barge which was opposite the Institute was more lightly equipped, having one 130 h.p. Deisel, and 90- and 45 h.p. auxiliaries. Current for the large barge was originally made by the contractors on a third barge, but this recently burnt down, and the current is now supplied from shore. The Harvard Bridge barge manufactured its own current, using oil power to drive the generator. A huge tank floated by its side, filled with oil monthly, and was sufficient supply.

When the semi-liquid mixture left the turbine pumps it was forced through the pipes at a pressure high enough to overcome the friction losses. The pipes, one foot in diameter, were buoyed up by pontoons to the shore, then were laid on the earth at their own making. A brown catarract spurted from the end, and one hundred and fifty feet away, a clear stream of water flowed past the overflow.

Bottom Agitated

The suction tube started working at a depth of about twelve feet, and when

Book Reviews

Stars In Their Courses

Sir James Jeans, MacMillan Company, 1931. From the pen of Sir James Jeans comes another work as well written and as brilliant as any of the books he is already noted for, *The Universe Around Us*, and *The Mysterious Universe*, in particular. In this latest opus, *The Stars In Their Courses*, he incorporates a series of radio talks, in which he assumed that his listeners knew little or nothing about astronomy. Thus the book is a fascinating introduction to the most poetical of sciences.

The book is primarily a journey through space and time. With his readers, Jeans travels through the solar system, and reveals many interesting facts about it. Typically, he reflects that the moon might seem a paradise to climbers from the earth, but that actually it is highly inhospitable, for, among other reasons, were the 244 degrees Fahrenheit on the sunny side too uncomfortable, the only alternative would be the minus 244 degrees on the shady side.

Continuing his journey through space, we are carried near Mercury and Venus, then into the sun. Discussions of ionization of atoms in the interior, sun spots, and solar prominences follow. The explanations are remarkable for their clarity, because Jeans is able to reach the imagination with them.

He introduces the reader to the Law of Universal Gravitation, treating it qualitatively, by an amazingly non-technical exposition, and finally proceeds to a slightly more technical classification of all the stars, a consideration of the Milky Way, and lastly, launching onto the depths of space, to the conception of the whole universe.

One of the outstanding features of the book is its unusual collection of photographs, among which are hydrogen and calcium impressions of the sun; fine close-ups of the moon; Jupiter by violet, ultra-violet, red, and infra-red lights; and a particularly fine group of nebulae in their various phases.

Sir James Jeans, in his preface, states that the book is "wholly unambitious." However, the production of such a book could well be the ambition of any aspiring writer, not only because of its fine non-technical exposition of complex scientific theory, but because of its clarity and easy style.

H. S. M.

through, left a flat table thirty feet below the surface. This was accomplished by having the tube swing in an arc of over 45 degrees so that it covered a large area; the pumps had to be stopped every fifteen minutes and the tube shifted, or else the barge was towed ahead a few feet. Directly before the suction tube was a wide propeller, which turned slowly, and loosened the bottom wherever packed hard.

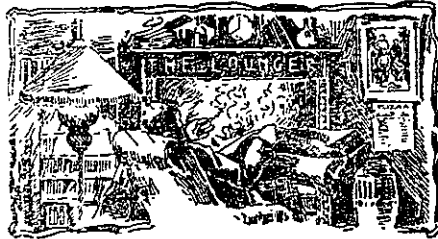
The work was commenced by pouring the gravel on a mound on the bottom of the river, having a crater of mud reach the top, enlarging it, and then landing the pipe on it, pushing up a strip of surface material. Although it now appears haphazard, filling in was being done by blueprint, and that section which now looks like an island will eventually become a lagoon, and the rest presenting a regular shore.

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The Lounger is abject, his apologies are proffered on the silver platter, he approaches on bended knee. In other words, he takes it all back. Phosphorus, in the person of Robert Henry, who wrote the "Sponger" for the coming issue of *Voo Doo*, has actually torn asunder the sacred traditions of *Voo Doo* and written a funny article, in fact the funniest ever observed by the Lounger, in a college sheet. Next, one expects to find President Hoover in office for another four years.

It has always been somewhat of a blow to the Lounger's sense of what should be, to find that our President occupies an insignificant suite of rooms tucked away on Floor 2 of Building 3. Something more in keeping with the prestige of the office has always seemed to be the logical demand, but until recently, no universal solution has been offered.

The Pulitzer winning idea has just been formulated by a friend of the Lounger's "der ein Physiker ist," who proposes that the place of eminence befitting so important a personality should be—of course, on top of the dome. Not only will this fill a long-felt want in the President's duties but will also give the Vice-President the obvious task of taking up his lunch. Excelsior!

One of the major moments in the existence of the Athletic Association has gone unnoticed until recently, mainly because of the reticence of the chief participants. The story involves the conversation of a former applicant for the hockey manager-ship who, one sunny day, answered the phone in compliance with his assigned duties at the office.

It was a strange voice which asked for Roger Congdon, and an even stranger conversation which followed when that worthy was discovered to be absent. It seemed to the slightly puzzled neophyte, who could not quite pick up the gist of the other's message, that there was a great deal of extraneous talk about Dr. Rockwell this, and Dr. Rockwell that, but nothing of further importance.

Finally giving up the attempt to make head or tail of the other's talk, and losing patience with the conversation, he exclaimed, in his most very polite and firmest tones, "I'm awfully sorry, perhaps you'd better call again, but I'm not Dr. Rockwell." "No, you fool," thundered back the answer, "I am." Perhaps there should be a moral to this story, but, unfortunately, the Lounger has no morals today, has he, George?

It has been bruited to the Lounger of late, that only two or three short weeks ago, the *Exonius*, undergraduate scandal-monger for "Exetah" (Phillip's Exetah, don't y'know), appeared with a small article to the effect that three boys representing Technology would be glad to

Platinum Mist Used For Manufacture Of Precision Mirrors

Vaporization Of Platinum Brought About In Tungsten Coil

That platinum may be caused to vaporize, and condense in extremely thin layers upon a great variety of substances, is the result of a discovery made recently at the California Institute of Technology. It was announced in the scientific journal, *Physical Review*, by John Strong, national research fellow, and developer of the process, that fibers coated with platinum were pliant and very smooth. Such fibers are prized for precision instruments. It is also believed that the process will also be suitable for making platinum mirrors, interferometer plates, and other valuable scientific instruments.

Difficulties Overcome

Before this discovery, the nearest approach to vaporized platinum, or more correctly, platinum mist, has been the "sputtering" process, in which the valuable metal is reduced to minute molten particles, and sprayed upon surfaces like paint. Dr. Strong, by slightly changing methods which had failed, produced the mist in a vacuum chamber. Tungsten, having a higher melting point than platinum, was used as the source of heat. Former failures occurred when platinum metal was placed into a white-hot tungsten coil, for air spaces between the metals, although very small, caused too much heat to be lost. Dr. Strong's innovation was the electroplating of the platinum directly upon the tungsten wire. This immediately led to success.

The vacuum chamber in which the evaporation of the platinum takes place is lined with copper from which any mist which settles may be recovered by peeling it off in sheets, for further use. The operation of vaporization is always under observation, and consequently under control, through the medium of a "window" in the box.

interview prospective freshmen relative to that institution. Further investigation reveals a certain house on the Fenway, to wit, the altruistic T.C.A. moguls, as the sponsor of this movement. School spirit, what?

Mention must be made of the very literal stink which is being made around the Dorms (one presumes), about the fifty-cent tax imposed for the last "riot." One supposes that this might also be due to the effort to get a real fraternity atmosphere around the place and thus defeat the cabals of the T.C.A.

In closing, it might be interesting to note that, in the Minutes for 1904, of one of the Beacon Street houses, there stands a motion (seconded and passed) which has been discovered by some delving historian, to the effect that all members of the house shall carefully hide all books during the rushing season lest the rushees get the idea that people studied. Ah, for the good old days.

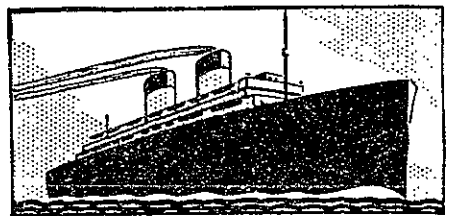
H. W. L. DANA SPEAKS BEFORE LIBERAL CLUB

(Continued from page one)

actually in full agreement with his associates. Professor Dana cited this as the reason why Shaw, while in Russia, would never openly praise Communism. When in England, Communism is deprecated however, Shaw is the first to take up the cause of its defense.

Lady Astor, who was with Shaw and the speaker in Russia, is a born aristocrat. Every time she met a prominent Communist she would say that he didn't look like a worker, but like an aristocrat. She would claim always that to be an aristocrat was to be intellectual.

NOW EUROPE is 50% nearer!



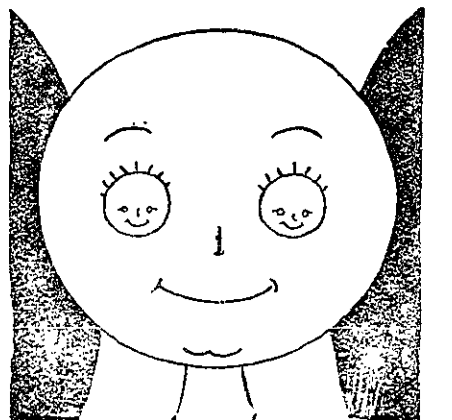
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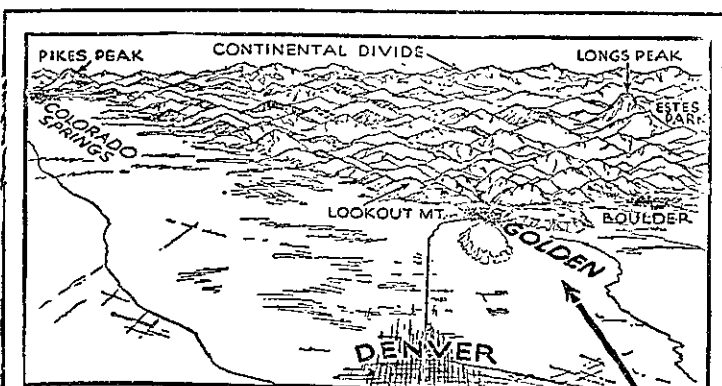
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Colorado School of Mines
Golden, Colorado

Interview Reveals Two Tech Men Are Jailed In India

Two Technology Men Arrested Because Of Sympathy With Ghandi

(Continued from page one)

production as is so often supposed. The home-spinning is merely another means to independence.

The National Congress has sent a corps of volunteers to the villages in an attempt to educate the people of India and to overcome the caste divisions. The castes, which were originally divisions according to occupation, are now merely a matter of birth, men of all occupations found in all castes. Each caste has its own body of laws. Mr. Mehta, for instance, belongs to a caste which is forbidden to cross the ocean. The castes are still preserved even in the modern cities of India. Inter-marriage between members of different castes is very rare.

The condition of "the untouchables" in old India was compared by Mr. Mehta to that of the negroes in the Southern states of this country. Mr. Mehta believes their condition today is somewhat better than that of the negroes. The origin of "the untouchables" is traced to the Aryan invasion of India. The Aryans made serfs of the Dravidians whom they found in India, forbade intermarriage, and designated their serfs "untouchable."

Prohibition

Prohibition of alcoholic liquors is another of the measures which Gandhi and the National Congress are attempting to promulgate in India. Mr. Mehta believes that the poverty of the Indians and their general indifference to alcohol will tend to make prohibition successful. Since the Indian laborer earns an average of four cents a day, he can hardly pay bootleg prices should he so desire.

The differences between the Hindus and the Moslems are usually exaggerated by the British reports, according to Mr. Mehta. While it is true that the older Moslems are supporting the British government, since many of them hold high official positions, it is also true that the younger generation of Moslems is working with the Hindus in the National Congress.

Nehru, a young Socialist and Oxford graduate, is the second greatest leader of the Indian people today, says Mr. Mehta. Little Socialism is found in India, and so far Nehru is working with Gandhi in the anti-British campaign. Although Gandhi has spoken of more justice for the poor, he has not given any indication of a Socialist policy to follow Indian independence.

Katherine Mayo, authoress of "Mother India," was described by Mr. Mehta, as a propagandist. She made generalizations of the instances of evil which she saw and depicted the Indians as unfit for self-government. She has been answered in a book by Kanaiyalal Gauba, entitled "Uncle Sham." Gauba has attempted to show in this book that evils can be found in the United States, too, if one troubles to seek them out.

CHI EPSILON ELECTS NEXT YEAR OFFICERS

The Technology Chapter of the Chi Epsilon Fraternity, the national honorary scholastic fraternity of Civil Engineers, announces the election of the following officers for 1931-32:

President: Clarence R. Westaway, of Canton, N. Y.; also Secretary-Treasurer of the Combined Professional Societies, member of Scabbard and Blade, Secretary of the Civil Engineering Society.

Vice-President: Alfred W. Garnell, of Spring Valley, N. Y.

Secretary: Douglas M. Stewart, of Providence, R. I.; President of the Student Chapter of the American Society of Civil Engineers, Phi Beta Kappa of Brown University.

Treasurer: John C. King, Jr., of Old Tappan, N. J.; Treasurer of the Student Chapter of the A. S. C. E.

Associate Editor of the *Transit*, national publication of the fraternity: Horace W. Taul, of Calwa, Calif.

Diagnose Of Plant Diseases Now Made With Thermometer

Texas Agricultural Station Discovers Plants Run Temperatures

Thermometers are now being used to diagnose the illness of plants which develop fevers completely human in symptom. The fact was announced recently by two men of the Texas Agricultural Station, in *Science*, the official journal of the American Association for the advancement of science.

The temperature of the plants range from one-half a degree to six degrees Fahrenheit above normal. Readings were made in the summer, when the temperatures of healthy leaves averages about ninety-five degrees, slightly below the average of the atmosphere, while fevered plants sometimes run temperatures of more than one hundred.

Method of Taking Temperature

To take the temperatures, ordinary garden thermometers were used, the leaf of the plant being wrapped around its bulb. Readings were easily made, but the results were verified by highly accurate thermo-couples.

The higher temperatures were attributed to the fact that certain rots, by affecting the roots of a plant, also effect the water supply, restricting it to the leaves. The roots, to overcome this shortage, raise their water pressure, and in doing this, cause the plant's temperature to go up, in spite of the fact that it often sweats visibly.

According to the investigators: "The leaves of cotton plants that have wilted from *phymatotrichum omnivorum* root rot are so regularly and definitely warmer than those of normal plants that the writers have been able to utilize this difference in leaf temperatures in diagnosing cotton plants about to succumb to the effects of the disease."

Final Exams Are Banned At Penn U. By Trustees

Two Weeks Normally Given To Examinations Now Vacation

Final examinations were definitely abolished recently at the University of Pennsylvania by its Board of Trustees convening at a special meeting. The body received and unanimously passed a resolution to abolish final examinations. Although details of the resolution were withheld, provisions for which it was called was released to the press.

Extra Vacation Time

The final examinations, normally held during two weeks in the latter part of May, or early part of June, will give way to a fourteen-day period of instruction and vacation. Professors and instructors will now conduct classes in the usual manner during the first week, concluding the grading period with an hour examination, the weight of which in the system of marking will equal that of other hour monthly tests given throughout the term. The second week of the fourteen-day period now becomes the first week of summer vacation, the term officially terminating with the close of classes on Saturday of the first week.

Opinion Divided

Opinion among the notables of the University was evenly divided; some felt that the college was an institution in which knowledge has to be forced into the student, that final examination was one of the best means of goading this into him, and that there could be no substitute. The Faculty, however, also benefitting from the act, endorsed the move.

THREE CREWS LEAVE FOR ANNAPOLIS RACES

Coach Haines Sticks To Same Boat Seating As Before

(Continued from page one)

The probable Technology lineups:

Pos.	Name	Varsity	Age	Ht.	Wt.
Row	Pleasant	20	6.01	173	
2	Valentine	20	6.00	183	
3	Lucke	19	6.02	180	
4	Rogan	21	6.03	177	
5	Miller	23	6.00	178	
6	Mowatt	19	6.02	183	
7	Glenn	20	6.03	185	
Stroke	P. Cook	21	6.02	180	
Average		20	6.02	180	
Coxswain	Dentlap	21	5.06	103	

Jayvee

Row, Wing: 2, Bromley; 3, Murdoch; 4, Hapgood; 5, Nashner; 6, Roulston; 7, Torbit; stroke, Lawrence, coxswain, MacMahon.

150-pound Varsity

Row, Balboni; 2, Kirkpatrick; 3, Walsh; 4, Frank; 5, Anderson; 6, Tower; 7, Priggen; stroke, Bource; coxswain, Stein.

Freshmen

Row, Packard; 2, Bisby; 3, Daley; 4, Johnstone; 5, Wood; 6, Killian; 7, Sherman; stroke, Seelman; coxswain, Hauptert.

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| Architectural Engineering | Industrial Biology |
| Biology and Public Health | Mathematics |
| Building Construction | Mechanical Engineering |
| Chemical Engineering | Metallurgy |
| Chemical Engineering Practice | Mining Engineering |
| Chemistry | Military Engineering |
| Civil Engineering | Naval Architecture and Marine Engineering |
| Electrical Engineering | Physics |
| Electrochemical Engineering | Sanitary and Municipal Engineering |
| Engineering Administration | |
| General Science | |
| General Engineering | |

The Course in Architecture is of five years' duration, and leads to the degree of Bachelor in Architecture. Five-Year Cooperative Courses in Electrical Engineering and Railroad Operation leading to the degrees of Bachelor of Science and Master of Science are also offered.

Graduate Courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy, Doctor of Science, and Doctor of Public Health are offered. The Courses leading to the degree of Master of Science include Cooperative Courses in Chemical Engineering Practice and Fuel and Gas Engineering.

The better high schools and other preparatory schools in the United States offer adequate preparation for the required entrance examinations given by the College Entrance Examination Board in June, or by the Institute in September.

Graduates of colleges or of scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding approximately to at least one year's work at the Institute, are admitted to such advanced standing as is warranted by their previous training, and are given credit for our required subjects, including the entrance requirements so far as they have been satisfactorily completed.

The Summer Session, extending from June to September includes most of the subjects given during the academic year, and in addition special courses for teachers.

Any of the following publications will be sent free upon request: Catalogue for the Academic Year (which includes the admission requirements.) Summer Session Catalogue. Graduate Study and Research.

Correspondence should be addressed to

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OFFICIAL BULLETINS OF GENERAL INTEREST

Department of Mining and Metallurgy Mr. L. W. Emerson
Monday, May 16, 9.00 a.m., Room 8-319

Mr. L. W. Emerson, Construction Engineer with the United States Smelting, Refining and Mining Company, will lecture on "Costs of Mill and Plant Construction." All interested are cordially invited to attend.

T. E. N. Carries Final Installment Of Morris's Series On Evolution

**Labor-Management Relations
Discussed By Samuel
Lewisohn**

Professor Frederick K. Morris has written the final installment of his story of the earth and its creatures for the May issue of *The Tech Engineering News*. Articles on cosmic rays and electronic theory furnish the rest of the "pure science" for this month; while descriptions of modern architecture, the problems of the engineering executive, and the work of the Bureau of Standards fill the remainder of the magazine.

Professor Morris's charmingly facetious style shows once more to advantage, as he attempts to reconstruct the beginning of the life process. As usual, he warns us not to substitute speculation for science, and then proceeds to do it himself. In the main, however, he is not on controversial ground; the mechanism of biological processes is generally admitted to be physical. His use of catalysis as an explanation of nutrition and reproduction is interesting.

In the short space allotted to him, Professor Morris obviously must leave a thousand intricacies untouched, a thousand objections unanswered. But, although he must let many essential details go unexplained, he has presented in the three installments of his series a glowing and convincing picture of the world's history as viewed in the light of the evolutionary hypothesis.

That glamorous individual, the Engineering Executive, comes in for attention at the hands of Mr. Samuel Lewisohn, of New York. This article is the first of another series; "The Industrial Relation of Brain to Brawn," it is called. The successful management of labor is much more than an economic problem, according to Mr. Lewisohn; fair play and a spirit of justice in the matter of promotions and other managerial details are just as important as in wage agreements.

Present-day electronic theory is discussed by Professor Wayne B. Nottingham of the department of Physics. This article is a short review of present knowledge in the field of atomic structure and electric energy. More out of the line of common knowledge is the information on cosmic rays imparted by Professor Ralph D. Bennett of the department of Electrical Engineering. He describes the original discovery of cosmic rays, and the tests which are to be made this summer to further determine their properties. Under the direction of Professor Arthur Compton, six expeditions will set out for various parts of the world, establishing observation camps in the highest accessible regions. Measurements at all of the twenty-odd stations will be made with identical instruments, all calibrated by the same standard.

Undergraduate Notices

GARNER FOR PRESIDENT

Students who may be interested in forming a "Garner for President" group at the Institute should communicate with Robert O. Lee '23, 172 State Street, telephone Capitol 4929. The first of such college groups was formed at Johns-Hopkins University, and several have been formed at other schools.

JUNIOR BASEBALL

Game with the Seniors at 5 o'clock on the Coop Field next Monday. As this is the last game of the year, a good turnout is desired.

Yale

Very recently Yale freshmen were blackmailed by two good-looking young women who refused to leave the men's dorm rooms until paid a small sum of cash. The blackmailers put in their appearance shortly after the 6 o'clock "no women" rule was in effect and threatened to scream for campus policemen unless they received the sum asked for.

MINING SOCIETY ELECTS OFFICERS

In the recent elections of the Mining and Metallurgical Society, the following officers were chosen: president, John D. Rumsey '33; vice-president, Preben Oldenburg '33; secretary, Richard Bell '34; treasurer, Rafford Faulkner '33.

The Society will hold its final banquet of the school year at the "Ole Plantation," Boston, next Tuesday at 6.15 o'clock. Professor George B. Waterhouse will be the principal speaker.

Penn State

A Penn State Senior recently addressed a House of Representatives sub-committee on compulsory military training. He believes that the compulsory military courses are not beneficial and has the signature of 700 fellow students who believe likewise.

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