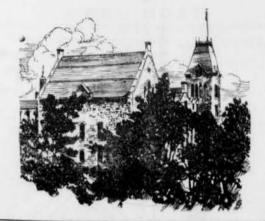
TECH



NEWS

VOL. 25

WORCESTER, MASS., APRIL, 17, 1934

THOUSANDS VIEW TECH'S INNER WORKINGS ON "AT HOME DAY"

ELECTRICAL ENGINEERING DEPT. GIVES SPECTACULAR DISPLAY

Physics and Chemistry Departments Also Provide Main Features for Vast Number of Interested Onlookers

CIVIL DISPLAY INCLUDES HY- LITTLE WORLD DRAULIC PROJECTS AND SUR-VEYING INSTRUMENTS

The E. E. Department put on an unpractically every phase of the work that is taken up by the students, and probably some more which the students never saw before. The whole building was used to the fullest extent, and was one of the biggest and best displays of Tech's "At Home Day."

In the lecture room, there were shown pictures of sound waves, pictures of electric waves, and the stroboscope. The sound waves attracted particular attention, especially when a record of Guy Lombardo's "A Night on the Water" was played and produced a series of jagged points entirely contrary to the opinion that Lombardo's music is "smooth." Following this, an instrument was demonstrated which showed the difference between the light given off by a bulb operated by alternating current and one operated by a dry cell. The means of detection was sound; when an alternating chance to bring the cup back to their current was tested, a machine-gun respective houses. L. X. A. won the tapping was produced, while a steady current gave a steady hum. The stroboscope is a light (of mercury vapor) which flashes intermittently, each flash lasting but five millionths of a second. The rate at which these flashes occurred could be varied, making it possible to see swiftly moving objects as though they were stationary In this way, a TECH NEWS on a disc revolving at the rate of 1,750 rpm appeared as if it were standing still, and effects were made on other discs of a ball rolling inside a ring, and a man swinging back and forth-"just like a

The basement contained a display of high-potential phenomena. Here were demonstrated the flash of a high-poten- during the last two weeks to give tial current around a large insulator, a Lambda Chi the annual cup. They lighting of candles by a high-potential victories; the first over T. U. O. with splendid example of call pinwheel driven by electric "wind," the clinched the cup by two additional Roget's spiral, and an illuminated col- the tune of 3-I with the low pinfall of ored water fountain.

Entering the large lab, each visitor was counted by a photo-electric which low-scoring match, 3-1, knocking over actuated an electric sign giving a wel- 1,005 pins to their opponents 998. Phi come to "At Home Day."

was the arc from a high-voltage oscil- gin, but nosed out the Friars 3-1 to interrupted length of over three feet; back to sixth. this can be better realized when it is S. A. E., by virtue of its tie with performed with this machine, including S. O. P.

(Continued on Page 5, Col. 4)

SERIES STARTS

Intra-mural Baseball Opens With usually good exhibit this year, showing a Galaxy of Stars'---A. T. O. and T. U. O. Play April 23rd

> The twenty-third of this month will see the first game of another series of intra-mural baseball, a series that has as much, if not more, fun and good sportsmanship than any other of the intra-mural sports. In the preceding years, most of the games have been a comedy of errors with everyone joining in the laughter, including the team's coach.

> For the information of those unacquainted with intra-mural baseball, the competition will be among eight fraternities, and each game will consist of five innings to be played after varsity baseball practice.

> There is much surmising as to who the possible winner might be. Several of the houses claim to have teams that exceed the ones they had last year and are sure that they have an excellent cup in a playoff with P. S. K. last vear.

> INTRA-MURAL BASEBALL SCHED-ULE-1934

Apr. 23-A. T. O.-T. U. O. 24-S. A. E.-T. X. 25-L. X. A.-Friars. (Continued on Page 4, Col. 2)

LAMBDA CHI WINS THE BOWLING CUP

Lambda Chi Alpha Wins by Six Points from Phi Sig.

The final matches in the interfraternity bowling series were cleaned up flash, the blowing out of these candles a score of 40, the pinfalls being 1,072 by electric "wind," Corona glow, to 969, and the second over A. T. O. to 1,036 and 987.

Theta Chi beat Phi Sig in a close but Gam lost a 3-1 match to A. T. O., One of the most spectacular displays winning its one point by a one-pin marlator which in one case acquired an take fourth place, forcing the Friars Chairman, "At Home Day" Committee.

known that the voltage was 500,000, S. O. P. managed to keep out of the and the frequency 10"2,000,000 cycles cellar. The total pins falling over numper second. Several experiments were bered 1,033 for S. A. E. and 1,029 for

(Concluded on Page 4, Col. 5)

CALENDAR

TUES., APRIL 17-9:50 A. M .- Chapel Service. Rev. Joseph Rogers.

7:30 P. M.-Masque Rehearsal in Commons Room, S. R. H., Third Act.

WED., APRIL 18-9:50 A. M.-Chapel Service. Rev. Joseph Rogers.

4:30 P. M.—Band Rehearsal. No School All Day Tomorrow. No Preps Tonight. Plan to Sleep Late.

THURS., APRIL 19-Patriots' Day-A Holiday. 7:30 P. M.-Start Those Preps Now.

FRI., APRIL 20-

9:50 A. M.-Chapel Service. Rev. Robert J. Nichols.

11:00 A. M .- Fuller Lecture, Charles B. Rugg on "The Engineer and Business Law."

4:30 P. M.-Orchestra Rehear-

7:30 P. M.-Masque Rehearsal, First and Second Acts, Common Room, S. R. H.

8:15 P. M.-W. P. I. and Salem State Teachers' College Combined Glee Club Concert and Dance at Alumni Gym.

SAT., APRIL 21-8:00 P. M.-Dorm Dance, Music by Boyntonians.

MON., APRIL 23-9:50 A. M.—Chapel Service.

Mr. Victor Siegfried. 4:00 P. M.-TECH NEWS As-

signments, B-19. 4:30 P. M.-Glee Club Rehearsal.

4:30 P. M.-Intra-mural Baseball; First Game of Series, A. T. O. vs. T. U. O., Alumni Field.

THANK YOU

To Our Student Body:

On behalf of the "At Home Day" Committee I wish to thank our students for the splendid manner in which you worked to bring about the success of "At Home Day." Every student organization responded whole-heartedwhen you have left us and gone to join our Alumni, the part you took in making our 1934 "At Home Day" a success will be one of the pleasant memories of your days on the Hill.

THEODORE H. MORGAN,

NEWS ASSIGNMENTS Monday at 4 P.M. Boynton

LIBERTY ENGINE BIG FEATURE IN M. E. DEPARTMENT PRESENTATION

Dynamometer and Strength of Materials Prominent Exhibits---Photo-micrographs on Second Floor

FOR JUNIOR PROM

Committee Has Promised an Enjoyable Evening

Fellow students, take this opportunity and turn the page of your calendar to the month of May. When you get there, mark a circle around May 11. If you don't know what this is all about, well here is the low down. May 11 is the date of the Junior Prom.

We all agree that good functions have good backing. Take it from us, one can't go wrong with the backing of the following committee. "Phil" Sullivan is the chairman and also on the music committee. Swift is the nual feature. other man teamed up with Sullivan to give the best in music. C. Marshall Dann is in charge of patrons and patronesses. Leonard G. Humphrey, Edward F. Cronin and Richard Stephen Falvey are taking care of the tickets, hall and marvelous decorations. Thomas F. McNulty, Joseph R. Sigda and Charles S. Smith are getting elaborate programs and dazzling favors.

The price to be sure is the most interesting, especially in these times. The Juniors are assessed six dollars. All Juniors not going will pay one dollar and a half and their tickets will be sold to members of other classes in (Concluded on Page 6, Col. 1)

STUDENTS PLAY HOST TO A. I. E. E.

Student Branch of A. I. E. E. **Gives Preview of Exhibits**

Thursday evening saw the lecture enthusiasm. It has brought us all— Day" exhibits of the department. The gan, chairman of the Program Committee. The latter then introduced the president of the student branch, George A. Stevens, who welcomed the visitors Engineering Building by the West in behalf of the student organization. Jerry Basset & Co. then gave a fine o'clock on Saturday afternoon, would demonstration with the stroboscope have been greeted with a nerve-wrackas he put his collections of pin wheels ing thunder. This came from the exand gear trains through an amazing haust of the big liberty engine. This variety of undreamed-of gyrations, with motor was donated by the United Professor Newell's assorted oscillo- States Navy. In the northwest corner graphs as preliminary treat.

(Concluded on Page 6, Col. 2)

PLANS COMPLETED ACETYLENE WELDING AND MOLDING COMMENTED ON BY W. P. I.'s VISITORS

After registration and checking, the first exhibit to meet the eye in the Alumni Athletic building was the photographic exhibit in the music room. Prize photos entered in a nation-wide contest were shown including many views of the campus.

Upstairs the band played selections, and the Blue Shirts played the White Shirts in a basketball game.

A life saving class was going for a while in the pool. They demonstrated different methods of approaching a subject, ways of breaking holds. This class which is not required, is an an-

The members of the Rifle Club kept the ranges open most of the afternoon, and the bowling alleys were in constant

In the early evening, the guests were invited to the banquet at Sanford Riley Hall, the dormitory. Speeches were made by different alumni interspersed with selections by the Glee Club and the orchestra. It is estimated that three hundred and fifty guests were cared for in the dining room.

THE "TECH NEWS" EXHIBIT

The TECH NEWS held an interesting exhibit at the east end of the basketball floor in the gym. A temporary office was set up with bound copies of the TECH NEWS on display. All during the afternoon and evening, the reporters were busy visiting the different features of the Exposition, getting ready to write it up. During the late afternoon the write-ups were read and reread, words counted, head lines composed. In short, the greatest part of the work of making up this issue of the TECH NEWS was accomplished on coom of the Electrical Engineering Saturday. Under ordinary conditions, building well filled as the W. P. I. with the "At Home Day" so late in student branch, acted in the role of the week, this news could not have host to the local section of the A. I. been written up, but the entire staff E. E., gave a preview of "At Home cooperated like clockwork to get real news into the earliest possible issue. together. May I venture to predict that of the senior section, who turned the Brown issue, a special feature not ormeeting over to Professor T. H. Mor- dinarily printed for this paper, a souvenir that will remind them of their trip in the future days.

A person entering the Mechanical Street door at any time after two of the same floor was the Marmon and

(Concluded on Page 5, Col. 2)

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THE HEFFERNAN PRESS

April 17, 1934

AT HOME DAY A SUCCESS

Once again Tech returns to a normal atmosphere after playing host to several thousand guests who came to visit her last Saturday. One of the most successful "At Home Days" ever put on was the result of the hard work. thoughtfulness and planning of the faculty and the students. Credit is due to all those who participated in it and to those who helped to put it over.

The work of the individual departments was also very interesting to watch, both from a spectator's viewpoint and from a student's viewpoint. Competition was keen and the little extra points or exhibitions that materialized at the eleventh hour were amazing. However, there were some of these departments that certainly lead the rest. With all due credit to the rest of the departments and to those who certainly did a lot in these other various departments, the Electrical Engineering Department was the most outstanding in all ways. From Thursday evening to Saturday evening this department went through its demonstrations in a manner befitting a trained seal. Congratulations are in order to this department and most of all to its head, Professor Morgan, who not only ran the entire show but put on a highly entertaining performance.

The reception afforded to the visitors who made the trip out to Chaffins was highly praised from one end of the Hill to the other. Congrats to you, Charlie, you certainly kept up the fine work.

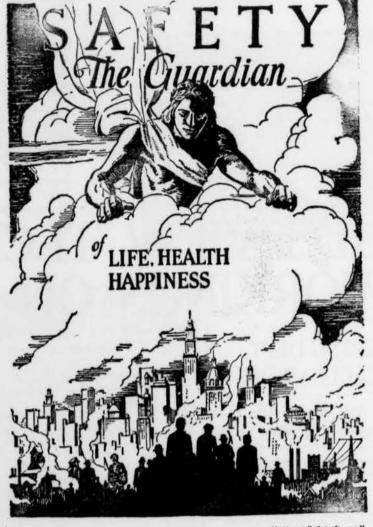
One of the new features this year which added considerably to the success of all the exhibitions was the system of guides, admirably managed by Paul Swan. Groups of visitors were in this way enabled to take in the main points of interest and to see many exhibits which they would otherwise have missed. The entire student body, with few exceptions, pitched in nobly and helped out the faculty with their excellent work.

It seems certain that the demonstration will be a real help to Tech, not only in attracting quite a few high school boys to help swell the enrollment, but also in giving us some of the long deserved publicity which we have failed to

ARE YOU A GENTLEMAN?

If the average Tech student was asked this question, he would undoubtedly answer in the affirmative. Yet, if he would stop and consider the true meaning of the word "gentleman," he would probably be unable to truthfully give an affirmative answer. A good common-sense definition of a gentleman is "one who can conduct himself properly under any variable circumstances." We mean by this, one who would be a credit to himself at home, in classes, on the athletic field or wherever he might be. By this definition we see that refinement, decency, and fair play are all characteristics of a gentleman.

The reaction probably will be,-"Sure, I have cultural manners, I play fair in athletics,-why, then, am I not a gentleman?" But,-do we stop and consider that fair play and decency must be carried out under all circumstances if we are to consider ourselves gentlemen? It is not only in our hostess's drawing room or on the athletic field that we must carry on creditably, it is wherever we may be. What then, is the trouble? Where are we deficient in these qualities? The answer is-in our class lectures. We always hear some crank "crabbing" about an instructor or professor who doesn't "give a fellow a break" but this same fellow does not appreciate a "break" when he gets one. He doesn't know the principles of fair play. When we have an instructor or professor who tries to make things pleasant and agreeable in every manner that he possibly can, there are multitudes of self-styled gentlemen who make things just as disagreeable and difficult for the one conducting the lecture as they are able. Does this seem like fair play and decency? Is it right to take advantage of a person's good nature and thoughtfulness? Any normal person would immediately say that it is not right, it is not fair nor is it decent. Yet why do so many of us always seize such an opportunity to give vent to all our hilarious feelings? One good turn deserves another is a very sensible maxim and we are sure that a few less cat-calls and crude outbursts would be a pleasant turn for some of our professors. We still can have our fun without taking it all out on one good soul. It would seem that the conscience ought to guide one in a case like this but results show that the conscience has utterly failed. So we make this an appeal to everyone to be more respectful, fair, and decent Let's be square-shooters, be fellows such that we can call ourselves thorough



-National Safety Council

on the Hill as well as to the highways danger unless one is cautious. The and other sources of ordinary danger, one outstanding cause of injuries is We are exceptionally fortunate, here at carelessness. If instructions are fol-Tech, in the scant number of accidents lowed faithfully, the probability of acwhich occur. However, with all our cidents occurring is nearly negligible. different laboratory courses there re- Let us try to be cautious in our laboramains a probability of accidents. The tory work. Don't try some stunt to machine shop, the pattern shop, the see what happens. The fellow who M. E. Laboratory experiments, the E. "fools around" is likely to get an un-E. Laboratory work and the Chemistry pleasant surprise. Be SENSIBLE!

Safety can be applied to activities | Laboratory work are all sources of

CAMPUS LOW-DOWN

We saw some pretty wry faces last Wednesday after marks came. But cheer up fellows for a term card of one of the faculty slipped out of a book in the Civil Library the other day. It might be a good idea to examine these marks and then figure out how he made Tau Beta Pi.

C. E. Lang. 75 Math. 3 58 M E 22 60 Physics 61 Phys. Ed.

Those certain sophomores who received "F" in Phys. Ed. ought to get together and see how they did it in the good old days, too.

"Hello, is this the maternity doctor? Well, come over right away, please," This is a snatch of the conversation that came out of a certain fraternity house the other night. The patient was none other than that sentimental gentleman from Washington. His big pal was that "smooth" senior who has been sporting a "W" lately. Probably hearing that "Mike" had a stiff neck made him forget himself for the moment.

From the same fraternity none other than that stellar inter-fraternity 220yard swimmer had a wild dream Friday night and jumped up and down on his bed till he broke it. He spent the next hour and a half running up and down stairs looking alternately for his mattress, pillow, springs, and good-nature.

A sophomore Physics class were conducting an independent experiment the other day on light before class. The set-up was the Physics lecture room completely dark. They tell me the subject of the experiment was "Slips (Concluded on Page 3, Col. 5)

G-E Campus News



A NEW MOVIE STAR

Lightning, commonly considered a "bad actor," plays the leading role in a sound-motion picture just released. Contrary to expectations, he gives a good performance; in fact, some critics say he "electrifies" the audiences. The picture, "A Modern Zeus," was made to illustrate how the terrific force of lightning has been expeditured in the of lightning has been reproduced in the General Electric high-voltage laboratory, in order that its effects may be studied and means devised to safeguard life and property against its attacks.

against its attacks. The studio, or laboratory, scenes show the discoveries of Edison and of Steinmetz, and the laboratory at the General Electric Works at Pittsfield, Mass., where artificial lightning discharges of up to 10,000,000 volts have been made. The charges leap across space, shattering blocks of wood and model buildings, and fusing sand into glass. The laboratory where the actor was trained is directed by K. B. McEachron, Ohio Northern U., '13, M. S., Purdue, '20, and the picture was made by General Electric's cinematographer, John Gilmour, Union College, '27. Gilmour, Union College, '27.

FREER WHEELING

a stretch of 30 intersections along Michigan Avenue, Chicago, traffic speed has averaged only 13 mph. Chicago traffic engineers, made a thorough 5-year study of the situation and designed a system of traffic control, based on the recommendations of several other nationally-known traffic experts, that is the most modern in the world. Here are some of its features: It is a progressive system that will practically double the present average speed of travel. Northbound traffic at certain intersections will be managed independently of southbound traffic. Flashing green signals will tell a driver whether he is going too fast or too slow to make a nonstop passage. Even the previously neglected pedestrian will have a blue-white signal to guide him.

blue-white signal to guide him.

When the three Chicago municipal government bodies involved decided, last year, to install the system, it was found that General Electric traffic-control apparatus would meet all the unusual and complicated conditions. General Electric obtained the order, and the system is now being installed. Ralph Reid, M.I.T., '24, was responsible for the design of the equipment, and C. H. Rex, Illinois, '26, G-E traffic-control specialist in Chicago, aided in the preparation of final plans.



ANTARCTIC AIR MAIL

In Schenectady, N. Y., there is a mailman who has, without a doubt, the longest route in the world. Every two weeks he delivers letters and postcards to eager recipients about 10,000 miles away—yet every one arrives on time. These letters go by air mail in the truest sense of the word, because they are broadcast by the General Electric short-wave station, W2XAF. Their destination is the camp of the Byrd Antarctic Expedition in Little America. K. G. Patrick, U. of Michigan, '29, of the Company's Publicity Department is the mailman. Publicity Department is the mailman. This air mail goes through regularly and quite clearly, thanks to a special directive antenna designed by Dr. E. F. W. Alexanderson, Kungliga Tekniska Hogskolan, Stockholm, Sweden, 1900, a G-E consulting engineer. Incidentally, W2XAF operates on a wave-length of 31.48 meters, or 9,530 kilocycles, and these programs are broadcast every other Sunday night starting at 11:00 o'clock, E.S.T.

GENERAL (%) **ELECTRIC**

OPEN FORUM

This is intended as a rebuke to "What Price Athletics," an editorial of crowds, newspaper publicity, and other the April 3 issue.

The price for playing the game at a player at some other institution. Tech is not too high. Where the editorial writer obtained the authority for saying the general consensus of opinion tionnaire respond favorably to that is "Yes" he leaves vague. Having been question, but some even went to the exa very close follower of Tech sports for statement altogether.

allegations of the NEWS writer are answer in the affirmative. contained in an interview between Coach Pete Bigler and a sports writer of the "Worcester Evening Post," published in that paper in March of last year. The story deals with football in particular, but I believe it reflects de fit, love of the game, and not any kind finitely the consensus of opinion in all of compulsion prompted their particiathletics on the hill.

I quote from the story in part:

college players (probably of the type think the price of playing is too high, of the NEWS editorial writer) but the grid season was enjoyable, judging from the answers they filed to a ques-

vicinity where the game would be a drudgery, it would be at Tech, because of the strict scholastic requirements, the long hours needed to keep up in the work, the lack of incentive of huge factors that might tend to compensate

"Not only did every player of the eighteen who responded to the questent to comment on the question. One the last four years, I challenge the player remarked that he was sorry it was his last year of competition and Perhaps the best answers to all the another added, 'very much' to his

> "The answers to the questions were enlightening, proved that college boys like sports and that they play chiefly for the fun obtained from the competition and that exercise, physical benepation in football."

I emphasize this paragraph espec-"Football may be a drudgery to some lially. If the players themselves do not ling. Quoting again: who then has a right to think so? Worcester Tech gridsters found that Thus, my reason for challenging that remarked, 'You can't get any glory first statement of the NEWS writer.

A bit further along in the "Post' tionnaire submitted by the athletic story is a paragraph which throws pants than he did other parts of his some light on the reason for the NEWS

Only the Center Leaves-these are the Mildest Leaves

Copyright 1934. The American Tobacco Company.

"If there is one school in this man for making his assertions. I quote

"In answer to the question about the causes for playing the game, the players were asked to answer each subdivision. Ten replied they played for the exercise as well as for other reasons, nine because of the physical bene fit derived, thirteen for the love of the

"No one replied that he played because of fraternity pressure or for the lack of something else to do, but some of the boys were frank enough to admit that they played partly for the glory of playing, this answer coming from a quartet. (The plot thickens.) Four also played because of the opportunity to win a "W" and four because of Alma Mater. In the last three subdivisions of the question these boys also said that they played as well for NEWS. the physical benefit, the love of the game or for the exercise."

Next comes a paragraph which hits directly at the type of fellow which the NEWS writer seems to be champion-

"One player, in answer to the question of playing for glory, facetiously sitting on a bench.' Evidently he wore out more of the seat of his football

BASEBALL SEASON LOOKS PROMISING

First Game Here the 24th With **New Hampshire State**

Saturday the twenty-fourth will open the Tech baseball season with a game on the home field against New Hampshire State. This premiere will start what promises to be a series of interesting games.

The men whom Pete has retained on the squad are: Captain Roy Driscoll,

And now for the grand finale-the direct denial of the intimated reason for the Sigma Beta clause in the

"Another interesting angle to the football reaction at Tech was the answer to the question, 'Can you study as well during the season as at any other time?'

"Ten replied they could, four said they could study better (what ho!) another said 'never' and one boy said that he could study as well but had less time."

S'nuff, ain't it?

Thanks for the space, EDWARD E. JAFFEE, '36.

Andy Sandquist, Francis Harvey, Ray Starrett, Al Cantor, Spitz Bottcher, Kommy Koziol, Jack Casey, Floyd Hibbard, Charlie Smith, Ray DesRochers, Dick Howes, Evan Luce, Orin Lee, Art Moossa, Zack Taylor, and Henry Mieczkowski.

Roy Driscoll and Andy Sandquist, both varsity pitchers, along with Harvey, a promising hurler from St. John's High, are putting the ball in the groove, and look good.

Starrett and Taylor are on the receiving end. Ray was the varsity catcher for the last year's nine, and Taylor has had a lot of experience in prep school.

Hibbard at first and Bottcher at short are "fixed" now. Second and third are still indefinite, although Moossa and Howes, respectively, seem to work the best. However, they are getting much competition from Smith, Casey, and Luce.

CAMPUS LOWDOWN

(Continued from Page 2, Col. 5)

that pass in the night," or sumpin'. One student came and saw and went home. The instructor, however, came, saw, and conquered although he did have trouble finding the lights. Incidentally, the class is still in the dark about the subject.

developed—they are harsh!

They taste better

NOT the bottom leaves-they're inferior in quality-coarse and sandy!



LIBRARY NOTES

Editor's note: Lady Montague once remarked that "No entertainment is so has jurisdiction. cheap as reading, nor any pleasure so lasting." On the shelves of the libraries Hill contain vast stores for serious here on the Hill are vast stores of study, they also hold much for pure knowledge and entertainment. The pleasure. Spears' "Old Landmarks and pleasure and value of these libraries is Historic Spots of Worcester" will tempt there for the taking. In order that the the reader to make an interesting tour students may be better informed as to the contents of the books and maga- time and shoe leather. zines contained therein, that they may take better advantage of their potentialities, the TECH NEWS has requested Miss Haynes to furnish each week bits of information regarding new books and various other sources of interesting and informative knowledge. May This she has willingly agreed to do and this column will be a regular feature of the NEWS each week. We wish to

take this opportunity to thank Miss Haynes for her efforts and to express the hope that students will be better informed and hence better equipped to take advantage of the possibilities contained in the rooms over which she

Although our libraries here on the of Worcester without cost except for

INTRAMURAL BASEBALL

(Continued from Page 1, Col. 2)

26-P. S. K.P. G. D.

27-A. T. O.T. X. 30-S. A. E.T. U. O.

1-L. X. A.-P. G. D.

2-P. S. K-Friars. 3-T. X.-P. G. D.

4-T. U. O. Friars.

7-L. X. A.S. A. E. 9-P. S. K.A. T. O.

10-T. X.-Friars.

11-T. U. O.P. G. D.

14-L. X. A.A. T. O.

15-P. S. K.S. A. E. 16-P. G. D.-Friars

17-S. A. E.A. T. O.

18-T. U. O.-T. X.

21-P. S. K.-L. X. A.

22-A. T. O.-P. G. D.

23-S. A. E.-Friars.

24-L. X. A.-T. U. O.

25-P. S. K.-T. X 28-A. T. O.-Friars at 4:30; S. A.

E.-P. G. D. at 5:30. 31-L. X. A.T. X. at 4:30; P. S.

K.-T. U. O. at 5:30.

Any student holding a varsity base ball "W" shall not be eligible.

Any student retained on the varsity squad after the final cut shall not be eligible at any time during the series. All games shall consist of five innings

and shall start promptly after varsity practice.

Any request for postponement shall be made at the gymnasium office at least twenty-four hours in advance.

The Physical Education Department will furnish two balls for each game and the winning captain shall return one after the game and report the score.

Lincoln Lunch Co.

27 Main St. GEORGE R. DORR, MGR.

Good Food Served With a Smile

DIGESTS BETTER

Tel. 5-1251 The Fancy Barber Shop 89 Main St. Directly over Station A

GOOD CUTTING NO LONG

SIX BARBERS

INTRAMURAL BOWLING (Continued from Page 1, Col. 2)

Final standing Won L. X. A. 26 P. S. K. 20 12 14 P. G. D. 17 A. T. O. Friars 17 T. U. O. 14 18 S. A. E. 10 S. O. P.

MARSHALL FARNSWORTH Cor. Highland and Goulding Sta. Phone 3-9474

FARNSWORTH'S Texaco Service Station

Certified High Pressure Lubrication Firestone Tires and Accessoris "MAKE THIS YOUR NEIGHBORHOOD

STATION"



jangled nerves are a warning

Perhaps you don't bite your nails are a warning of jangled nerves. - but if you aren't the stolid, phlegmatic type, you probably have other nervous habits.

You may drum on your desk chew your pencils-

Why not play safe? Protect your nerves. Get enough sleepfresh air-recreation. And make Camels your cigarette.

For Camel's costlier tobaccos These and countless other seem- never jangle your nerves-no ingly unimportant nervous habits matter how steadily you smoke.

COSTLIER TOBACCOS

Camels are made from finer, MORE EXPENSIVE TOBACCOS than any other popular brand of cigarettes!



SMOKE AS MANY AS YOU WANT... THEY NEVER GET ON YOUR NERVES!

FRACHAT

P. G. D.

We most certainly had a full house Saturday night, in fact, it might aptly be termed overflowing. There were eighteen overnight guests, the majority of them being prospective stulows came from the vicinity of New

for the big day were: Wayne Keith, Iones, '26, Falmouth, Mass.; John T. Wenzel, Jr., '23, Yonkers, N. Y.; F. C. Skuropat, '31, Philadelphia, Pa.

Thereupon he produced a small neon and snapped. bulb and the process of generating light commenced. The process was not was fully as exciting. The whole affair was easy. It appeared that the bulb would glow at a variable fre-Hyatt's charges. The boys haven't decided yet where they can light the whole house; but if the neighborhood cats are missing we'll know there is something doing.

Home Day," were Harold Perkins, ness without tensile strength is neces-"Bum" Doubleday, Paul Nelson, "Roy" Nyquest, Frank Roberts, and "Don" Haskins.

P. S. K.

The graduate student spent his vacation in the big city and then came back to rest up. From what he says Club Hollywood is quite a place. It looks like we will have plenty of tall stories now for a while. Another brother thought it was kind of cold out in front of the house Friday night, and expressed his feelings in no mean terms to a group sitting in the car-was his face red? The boys have turned their attention from make-ups and contract and are now playing, "Come out, come out, wherever you are!" See Erick for details

Several have been rising quite early lately too. (Nothing less than initiation proceedings could have caused that.) While we are on the subject, C. J.'s arm is improving.

model T back louder and funnier. We more that came home from a "blind" with the girl's "hanky," belt, hat, dance order, and salt shaker, not to mention most of the lipstick too. For all you who are interested, the "Wheezer" claims he was hit on the lip with a baseball.

Bro. Dunbar of Alpha chapter was a visitor at the house recently.

T. U. O.

The week-end proved a busy one here in the house with guests almost out-numbering the students. Families and friends were present in number and Herbert Morse, '11, with family, Russ such fine souvenirs for our visitors. Sibley, '31, Carl Rylader, '32, T. D. Hayes, '07, Cliff Martinka, Ex-'35, John rated the blackboards with curves of Wells, '30, as well as many other local different mathematical equations, some alumni.

sometime during the evening and kept carrier wave in radio. The parabolic brothers and guests considerably arch, the ellipse by the auxiliary circle of grass which some day may become a the effects of different sizes and kinds amused with his stories etc.

Many tired men dropped into strange beds, to suffer the torture of interrupted sleep, but the night went on. As may have been noticed by some,

(Continued on Col. 3)

M. D. EXHIBITS

(Continued from Page 1, Col. 5) the dynamometer. Fifteen gallons of aviation high test gasoline had been provided to run the motors, and it is safe to say that little was left by ten o'clock of that evening.

In the Strength of Materials Laboratory there were three pieces of apparadents here. Twelve of these young feltus that were being demonstrated. The first was a "Repeated-Impact Ma-York City, the rest from various places, chine." This machine exerted a blow Among the brothers who came back on the same spot on a bar of iron. By three o'clock the apparatus had regis-'22. Brockton, Mass.,; Kenneth Fryer, tered nearly 60,000 blows on alternate 30, Willimantic, Conn.; Chandler W. sides of the test bar. This machine was designed by a Japanese engineer. A second testing machine stretched Bragg, '24, Bristol, R. I.; and Leon D. bars of test specimens. These specimens were turned out on a metal working lathe, and the smallest diameter aimed at by the students turning them While experimenting with high volt- out was .5000" with an error not in exage charge secured by combing cess of 0.0005 inches. One sample "Fitz" Hyatt's head, "Don" MacMillan tested withstood a stretching tension suggested they do something practical, of 8,000 pounds. It then "necked in"

Upstairs in the General Laboratories were microscopes and slides for study actually as technical as that formally of the crystalline structure of different performed by the great Edison, but it alloys and states of tempering and heat treatment of steel. In the commercial world untreated cast iron is of two varieties, gray cast iron and white cast quency depending upon the rapidity of iron. The first of these has been used extensively where amount of weight is not important but where considerable mass is desired. Large diameter is dropped into the water and the speed pipes and automobile cylinder blocks are made of this variety of cast iron. Among the alumni back on "At White cast iron is used where hardsary.

> The Washburn Shops demonstrated the metal and wood-working department by students and instructors operating the machines. The greatest interest for everyone was in the Aeronautics Department. A Navy seaplane is set up, and a ladder placed along side of the cockpits so that people could look in and see the dash board and the controls. The younger visitors being more adventurous climbed into the cockpits, and derived satisfaction from operating the controls. One of the demonstrators operated a model in a wind stream practically flying the plane. The wind tunnel while a valuable adjunct to the equipment of the Institute was not of such general interest.

THE FORGE SHOP

Across from the Mechanical Engineering Building, next to the Washburn Shops is the Forge Department. Here We hear the red head brought his electric arc and acetylene welding and acetylene cutting were demonstrated cannot forget to mention the Sopho- by two Sophomores. Samples of different types of welds were shown on the welding benches.

THE FOUNDRY

So great was the interest shown in the foundry that Mr. Gray, the Super- ter Tech, we of the Scarsdale continintendent, had some difficulty in getting gent were first of all considerably imthe floor of the shop cleared so that he pressed by the spirit of amity and cencould go ahead with the pouring. The tered co-operation that seems to prevail that hears was one of the most inter- system. There were displays of surveymolds were poured, and the castings all over the "Hill." Speaking more esting displays. It seemed to answer ing and calculating instruments. dumped. Men at the snagging wheels positively, in our wandering among the of the seals of the Institute. It is that here was a world of solid useful hear it, would there be any sound?" of the New England Power Company. rumored that four hundred of these material for the engineers of the fu- This flame was sensitive to any sound, A Motion Picture showed the construcwere given out, and the cry for more ture. We believe that in this smaller jumping up and down when any sound tion of Boulder Dam. There was a brothers of brothers kept almost every. was persistent. The instructors of group a firm foundation may be laid was made; even being sensitive to fre- display of the development of the one confused. Among the alumni who Pattern Shop and Foundry deserve as well as among activities of a pleas- quencies beyond the range of the hu- bridge, and the development of railroad dropped in were, Roland Packard, '08, credit for thinking up and executing ing social order.

The Mathematics Department decosolved by Analytic (Algebraic) Geome-It is also reported from some ob try, and others by Calculus. One of the scure source that "Baron" Crane, Ex. most complex was the graph of the '33, showed his head within the doors curve which represents the modulated method, and the equilateral hyperbola "lawn." Unfortunately we are not so of orifices on the flow of liquids in pipe by the strip method were some of the simpler and more common curves, seems to be able to have a lawn over- sight was a large centipede with glass leave them in the NEWS Box in Boyn-There were also Geometric figures night. Some day, who knows we may legs. However, closer examination ton Hall or turn them over to any showing how volumes of the intersec be able to put up another fence in self- showed the set-up to be a long pipe

most interesting exhibit was the machines, some part of which traced curves on glass. A one-sixth degree equation with unusual bends and twists was made by a machine of three pieces, two arms pivoted on their ends, with the other ends fastened to either of the

equal angles of a tall isosceles triangle

Another department at this school which received much attention during the "At Home Day" festivities here on Saturday was the Alden Hydraulic Laboratories, at Chaffins. Upwards of a thousand of the day's visitors took time to look over the plant and learn why Tech has gained nation-wide prominence because of it. All the equipment was in operation and numerous student guides were present to explain any detail of operation which interested those visiting the

A method of measuring the flow of water in a pipe line, which was devised several years ago by Prof. harles M. Allen by means of injection of salt water into a line and then observing the rapidity with which lights set along the pipe light up. Prof. Allen explained that salt water, being a good conducter, enabled the electricity to light up the lamps as the salt water reached the various points along its route. Another method for making the same study in an open spillway was also demonstrated. A travelling screen, mounted on bicycle tires travelling on the wall alongside the traveling water. of the device determines the velocity of the water.

The model of the Rock Island project in the Columbia River which is to one hundredth full scale attracted much attention from those present. Every detail of the original is perfect on the model scale. The contours of the river bed as well as the rapids and velocity of the water have been carefully copied.

Methods of making a study of the flow of gases in an engine manifold were shown by the use of water and colored dyes. Student experiments showed means of studying the flow of fluids in elbows.

Differential surge tanks, with special head measuring devices; circular current meter stations; over shot water wheels; and models of other commercial hydraulic structures were all in operation and demonstration.

Two busses were run to the plant from the Institute and many hundreds of guests visited the laboratories.

VISITORS' COMMENTS

We are printing a comment that a visitor was kind enough to voluntarily submit to the NEWS office in the gymnasium. There will be a few more next week.

To the Editor:

On coming to the campus of Worces-

Signed,

ROBERT CHANNING BURTON IOHN GARRETSON REMSEN HUBERT PRIDE YOUNG

FRACHAT

(Continued from Col. 1)

tions of solids could be calculated. The preservation or protection.

E. E. DEPT. EXHIBIT

(Continued from Page 1, Col. 1) the boring of holes in wood, the manufacture of beautiful long corona, the illumination of a twelve-foot chain gap, and the jump of a twelve-inch spark to an electrode held by one of the instructors, who was luckily well insulated. All in all, this display drew one of the largest crowds in the E. E. exhibit.

Another device around which was gathered a goodly number of visitors was the rising arc which started near the floor between two wires and slowly rose in a delicate blaze to the roof trusses thirty feet above. Then there was a strength tester, consisting of a D. C. generator to be cranked by the strong men; a measure of the current generated gave a measure of the strength put into the crank. Last but not least of the floor exhibits was the drinking fountain automatically operated by a photoelectric cell when a thirsty person's head was bent over the fountain.

In the balcony and upper rooms of the E. E. building there were still more attractions for prospective engineers. In the balcony, there was an aluminum plate supported in the air by eddy currents from an electro-magnet, and further along there was an electrostatic machine producing an eleven and three quarters inch spark with 650,000 volts.

The rooms of the balcony held still more machines. One of these was 'Nero, the mechanical dog." This toy would jump forward to a whistle in the microphone, and crouch back when spoken to, all depending on the frequency of the tone with which he was spoken to. Several outsiders tried but failed to get away with a fifty cent piece in a burglar-proof cage, viewed the effects of ultra-violet light on an oil painting, and saw the history of modern lighting.

Taken as a whole, the E. E. exhibit was a lot of work, but it certainly did its part in making "At Home Day" a success. A great deal of credit should go to those men who worked so hard to put it over.

The Salisbury Building Saturday afternoon and evening was the scene of much activity. The Physics department with its interesting exhibits was perhaps the most populated. Through the combined efforts of Mr. Tarbox and joyable fifteen minutes watching what every Freshman sees performed during his first year at Tech. Among the displays were the transformation of heat energy into sound. A copper gas flame and when the heat was withdrawn, a booming sound was heard. Perhaps what the visitors enjoyed most also had several models on display. was watching Mr. Tarbox play a tune There was a model showing the details on a cornet by using compressed air of construction of a mill. Several reforced through a revolving disc filled lief maps were there, one explaining with holes, which caused notes of dif- the way Worcester receives its water, ferent frequencies to issue. The flame and the other showing a model traffic the age old question, "If a tree fell in | The most spectacular was a model were kept busy, trimming up castings exhibits and apparatus, we discovered the forest and no one was there to of the Pifteen-Mile Palls Development, man ear. Among the other exhibitions transportation. The construction of a fields and the vibrations set up in perspective drawings. metals or other substances by rubbing

For its part in "At Home Day," the Chemistry Department showed the theses of several of the Seniors. The one which seemed to attract the most we are again attempting the growth attention was that by Mr. Narcus on successful as the auditorium which lines. What it most looked like on first fitted at intervals with orifices through

which water was flowing. At these points glass tubes were attached and these in turn attached to a manometer which measured the pressure of the water flowing through the erifices. From these values the velocity of the water could be calculated. This study is of interest to certain industries in that if an orifice could be placed at the bottom of a pipe through which liquid was flowing, without decreasing the velocity appreciably it would be a great advantage, for if the liquid contains any residue it usually piles up behind the orifice and blocks it when it is in the middle of the pipe.

Mr. Tashjian and Mr. Kurtz had an apparatus consisting of two pipes one inside the other, one conducting steam and the other carrying water. At several points along the line copper-constantin thermocouples were inserted in the pipes to measure the heat transfer. It has been found that a thin layer of water adhering to the inside of the pipe offers more resistance to the transfer of heat than either of the two pipes. This film of water was broken by vibrating the pipe.

The collection of minerals in the Mineralogy Laboratory attracted a good deal of interest from those interested in the subject as well as from those not especially taken with it. "Honk" Fuller's "Bug Ranch" also came in for more than its share of visitors and interested comment.

In the Chemistry lecture room the visitors were able to sit down and enjoy the showing of motion pictures on digestion and bacteria. Demonstrations were also made of the tests used in the detection of polluted milk and of chemiluminescence.

The exhibits in the Salisbury Laboratories continued from two p. m. till ten p. m. and although the demonstrations were not as spectacular as those offered by several of the other departments, they were thoroughly enjoyed by all who saw them.

The Civil Engineering Department had a very interesting display of the results of its work to show the thousands of visitors on "At Home Day." There were maps of surveyed areas, buildings and bridge arches. One of the most interesting of these maps was a plan of the Tennessee River Valley Project. This is now a government project. The benefits from this are to be far reaching. They include cheaper Mr. Lawton the visitors spent an en- power, and water, it will help in flood control, prevent soil-erosion, increase the standard of living, assist in the development of the adjacent natural resources, and will consolidate the county governments. This is one of gauze in a long pipe was heated by a the largest developments that has been carried out in the country.

The Civil Engineering Department

were the effects of electro-magnetic concrete bridge was shown by sectioned

A chart showing the exact hours spent by students in their different Civil Engineering subjects, was shown drawn to scale and forming an arch.

NOTICE

The TECH NEWS Staff is desirous of obtaining several copies of issue No. 9, Vol. 25 dated November 29, 1933. Please member of the Staff.

We thank you!

JUNIOR PROM

(Continued from Page 1, Col. 4)

the Institute for four dollars and a half. The place where this stupendous, colossal, gigantic time is to be held is down at the palatial ballroom of the Bancroft Hotel in this beautiful city of Worcester. Dancing is to be held from ten p. m. to three a. m. Tickets go on sale next Tuesday.

The band to play at the Prom will be Jack Miles and his "Band of Bands." Jack Miles, the leader, came into the public spotlight when he was the feature of Guy Lombardo's orchestra back in 1925. He left this organization to build his own band in order to carry out his own ideas. It is needless to say anyone having heard his band either over the air or in any of the places that they have played in the past such as: The Golden Pheasant, Cleveland; Granda Cafe, Chicago; Lowry Hotel in St. Paul, Belleneve Hotel in Kansas City, The Ten Eyck in Albany, Silver Slipper in Memphis, King's Cafe in Cleveland and many others will truly agree that it is the "Band of

is to be finer and better than ever, so like plan to attend.

A. I. E. E. PREVIEWS

(Continued from Page 1, Col. 4)

So large was the gathering that the party was divided, one group strolling down to the Hi-Pot Laboratory to view corona and flashover tests on insulators, and the illuminated fountain, while the party of the second part climbed to the Design Room illuminated by neon, sodium vapor, and ultraviolet lamps, and a host of other light bulbs. Joining forces again, both groups explored the gallery of the general laboratory, where Messrs. Reed and Basset alternately lit or blew out various light bulbs held in their fingersphenomena apparently dependent entirely on their glowing personalities. Perhaps their million-cycle oscillator had something to do with it, as others soon mastered the trick. Then there was Eddie Milde's silk belt electrostatic generator, that would are three inches when the crowd was there, and Jack has made a recent addition then jump over eleven inches when to his orchestra, namely, Marge Toll. only a few were on hand to watch; a If you have not heard her over the good sized electro-magnet and a mysair, by all means hear her in person. terious aluminum plate that floated in

Egan, and another cathode ray oscil- Led by the guides, the gathering From all predictions this year's Prom lograph that showed what speech looks crowded to the library, there to gaze

> main floor were in full swing, and the equal in the country, is under the percrowd trooped down to watch the high sonal charge of John Anderson, janitor voltage machine sponsored by Professor Seigfried and the P. G.'s sputter and spark. A rather striking effect was achieved by breaking the arc up into last of the one-hundred-sixty-odd visismaller sections several dozen in number. Meanwhile Bill Locke's Ladder Gap sent loops of crackling flames climbing from the floor to the very eaves, while close at hand a shiny silver the finest "At Home Day" ever is in half dollar lay exposed to the general public. But it was still there when the last person had gone home, for a sensitive relay effectively announces and traps anyone with suspicious intentions who reaches into the cage. Rumor hath it that the four bits is pretty well welded to the table anyhow, should the relay fail.

"Nervous Nero." the department mascot, was on hand. He advances when you whistle to him, but a growl sets him back upon his haunches. Other exhibits included the automatic drinking fountain and the welcome sign, actuated by photo-electric tubes.

The show contained not only things

Her voice just fits with Jack's style of thin air under the hand of Sullivan and electrical but horticultural as well. upon the rare species of Clevia now By this time the fireworks on the in full bloom. This exhibit, without extraordinary, who spoke a few words befitting of the occasion.

> It was aften ten o'clock when the tors quit the building. The enthusiastic response of the gathering seemed to augur well for the coming Saturday, and should the prophecy be fulfilled, store for the Institute.

GLEANINGS

(NSFA)-Two theological students at a Texas university turned bandits so that they could get enough money to continue their studies for the ministry. They got five years in prison instead of the D. D.

(NSFA)-A report by Herbert Taylor, chairman of the bad check committee, revealed that a total of 865 checks were returned on students last year. The total amount involved was \$6,422.29.—North Carolina Tar Heel.

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