

THE TECH

VOL. XXXIV. NO. 63.

BOSTON, MASS., MONDAY, NOVEMBER 23, 1914.

PRICE THREE CENTS

TECHNOLOGY MEN IN THE EUROPEAN WAR

Former Students And Professors In Opposing Armies Of Conflict.

The present war has made itself felt at the Institute, as everywhere else, in a number of different ways, among which may be mentioned the presence of Technology men, both students and members of the faculty, in the English, French and German armies.

Perhaps the best known of these cases is that of Simpson Parkinson, a member of the class of 1916, and a special student in Course IV. Parkinson was leading man in "A Royal Johnnie," last year's Tech Show, and was on the Glee Club Quartet. Being a native of London, Ontario, Canada, he is enlisted as an aide-de-camp in the overseas contingent of the British Imperial Guard, and is now seeing service in Europe.

Werner Theodore Schaurte, of the class of 1915, Course II, whose home is in Dusseldorf, Germany, did not return to the Institute this year, and he is understood to be in the army of
(Continued on Page Five)

OPPORTUNITIES FOR MEN

Circulation Department Of The Tech Calls For Candidates.

The Circulation Department of the Tech issues a call for candidates for the position of Assistant Circulation Manager. The department in question offers perhaps the most promising opportunities, and men coming out for this branch of the paper now will be given an immediate chance to get into the work. Sophomores in particular, and freshmen are needed. The Circulation Manager will be in the upper offices every noon from 1 to 1.30, and will be pleased to receive any candidates.

E. E. EXCURSION

This afternoon at 1.45 a party will leave Lowell Building for a visit to the works of the International Engineering Co., at Framingham. The car leaves Park Square at 2 P. M., and the round trip fare is fifty cents. At this factory features of considerable technical interest may be observed. Members of all the Engineering Societies are cordially invited.

TRACK MEETING

The indoor track season starts today with the meeting to be held this afternoon at 4.15 in 11 Eng. B. It is important that all men interested attend, as the names of those wishing to try out will be registered at this time.

"GETTING A-CROSS" A ROMANTIC FARCE

This Year's Show, By Irving B. McDaniel, Chosen From Five Books.

The manuscript which was unanimously chosen for the basis of this year's Tech Show is "Getting A-Cross," a somewhat farcical romance in two acts, by Irving Barry McDaniel, '16. McDaniel's home is in Los Angeles, California, and he spent a year at the University of California before coming to the Institute. He is study-



I. B. MCDANIEL, '16
Author of This Year's Tech Show

ing architecture, taking the engineering option of the course. He has been particularly prominent among the activities, having worked on the Tech, 1915 Tug-of-War Team, Technique 1915 Electoral Committee, "Was Ist Los," and "Yish Ka Bible." He was Grind Editor of Technique, 1915, and has taken part in the Glee and Mandolin Clubs, as well as in the last two years' shows. Both years he was a member of the cast, and wrote several of the lyrics and much of the music for them. He is a member of the Delta Tau Delta fraternity, and of the Walker Club.
(Continued on Page Five)

MILITARY SCIENCE

No Drill Wednesday And Friday Of This Week.

Major Cole has announced to the different sections that there will be no Drill or Military Science lectures on the Wednesday before or the Friday following Thanksgiving Day.

BOAT CLUB

There will be a meeting of the officers of the Boat Club this afternoon in 27 Rogers at 4.30.

CIVIL ENGINEERS VISIT FORT ANDREW

One Hundred And Twenty-Five Men Enjoy Trip and Inspect Defences.

The trip of the Civil Engineering Society last Friday afternoon to Fort Andrew was one of the most successful in the history of the society. Over 125 men went, including some from Courses VI and XIV, quite a number of the Cadet Officers and about a dozen members of the Harvard Civil Engineering Society.

The crowd left Long Wharf on a government mine-layer at 2 p. m. and arrived at the fort about three. The trip down was not without interest, for Capt. Davenport took a course near the "Kronprinzessin Cecelle" and three other German craft tied up here because of the war.

At the fort the men were first taken to one of the mortar pits. Here the working of the guns and the method of range setting by means of angle of elevation and size of powder charge was explained. They
(Continued on Page Three)

CHAUNCEY HALL SMOKER

Mr. Kurt Gives Talk To Members—Outing Planned.

The business meeting of the Chauncey Hall Club was held in the Union last Friday. After the regular business President Sully suggested an outing for the members of the club. The suggestion was received with enthusiasm by the members and a committee was appointed to arrange details. Mr. Kurt, the principal of the Chauncey Hall School, who was the guest for the evening, then suggested that the club hold its outing in conjunction with the Chauncey Hall School. The proposition appealed to the members and was accepted.

Interesting accounts were then told, by members of the club, of the last outing of the school, which was held in Salem. The party enjoyed ball games, tug-of-war matches, track events, etc. The morning events were followed by a clambake and the boys went home, late in the afternoon, very much pleased with the outcome of the day's festivities.

Mr. Kurt then gave a talk on the trials besetting the principal of Chauncey Hall. He showed clearly that his interest in a fellow did not
(Continued on Page Six)

TAG DAY RESULTS

All indications tend to show that Tag Day has met with great success, but the exact results cannot be obtained until all receipts have been returned by the agents. Those who have sold tags should hand in the money at the Cage today at the latest.

CORNELL WINS ANNUAL CROSS COUNTRY RUN

Technology Takes Fourth Place Captain Cook First M. I. T. Man To Finish.

Cornell easily took first place in the intercollegiate cross-country run at New Haven Saturday morning with a team score of 35, finishing their entire scoring team within the first twelve. Harvard beat out Yale for the runner-up position, while the Tech team just nosed out Pennsylvania for fourth. D. F. Patten, Jr., of Cornell was the individual winner, covering the six miles in 34 min. 3.5 sec., beating out Morrison of Princeton by fifty yards. Wenz of Colby sprung a surprise, finishing in third place, after staying with the leaders all through the run.

Cook, who finished 11th, was the first Technology man to break the tape. Brown ran a strong race, working up from 35th to 14th place in the last mile of the course. The other scoring members of the Tech team were Benson, who took 18th, Wall 34th and Litchfield 36th. Bradley,
(Continued on Page Four)

LYRIC COMPETITION

McDaniel Will Meet Writers Today.

I. B. McDaniel, author of "Getting A-Cross," will meet all men out to write Show lyrics in the Show Office today at five o'clock. He wants every man possible to be there as he will explain the books and songs. A complimentary ticket for any performance will be given for each accepted lyric as in previous years. The writers will be given two weeks in which to prepare their work. The ideas are extremely varied and McDaniel will try to show the fellows how easy it is to write lyrics.

GLEE CLUB

There will be a rehearsal of the Glee Club in the Union today at 5 p. m.

CALENDAR

Monday, November 23, 1914.

1.00—Candidates for Asst. Circulation Man., The Tech Meet. Upper Office.

1.45—E. E. Trip to International Eng. Works at Framingham. Meet at Lowell.

4.15—Indoor Track Meeting. 11 B.
4.30—Boat Club Officers Meet. 27 Rogers.

5.00—Glee Club Rehearsal. Union.
5.00—Meeting of All-Men Wishing To Write Lyrics for "Getting A-Cross." Show Office.

Wednesday, November 25, 1915.

5.00—Glee Club Rehearsal. Union.

THE TECH

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MONDAY, NOVEMBER 23, 1914.

IN CHARGE OF THIS ISSUE.

Editor: J. M. DeBell, '17.
Associate: E. W. Rounds, '17.
Assistants: A. P. Sullivan, '17; A. N. Pray, '18.

The occurrence of the summer-camp reunion and a concert at the Musical Clubs on the same evening suggests that activities need another reminder of the existence and purpose of the Calendar Committee. This body is appointed by the Institute Committee solely to serve the activities by eliminating conflicts in the time and place of events. If the activities do not cooperate in this, they are the losers, and have themselves to blame. Notice of every event planned should be left at the Cage at least a week in advance, for the Calendar Committee, in order that it may be posted on the Union calendar and that the evening may be reserved against other activities.

Moreover, less than half of the activities have their officers posted on the board provided for this purpose next to the Calendar, and under the charge of the same committee. It is highly desirable that the names and addresses of these officers be readily available, and each organization should see that it is not left out.

It is true that the Committee itself has not been as active as might be wished. Many of these names and addresses could have been secured with little effort, and many dates of events not reported could be secured from The Tech. The responsibility, however, as well as the direct interest lies with the activities.

Boat Club Officers. 27 Rogers at 4.30 P. M. today.

ENGINEERING AND SCIENTIFIC NOTES

The long series of tests conducted by the United States government to determine by radio-telegraphy the difference in time between Washington and Paris were concluded last week. The longitudinal difference between the two cities was declared to be 5h. 17m. 36.658s. This is the first instance where differences of longitude or time have been determined by the use of wireless.

The tests were conducted from the Naval Observatory and the Arlington Radio Station at Washington and the Eiffel Tower in Paris. Signals were transmitted at the rate of 175,000 miles a second. The distance between the points on a great circle is 3931 miles.

Aluminum has lately been put to a new use as a medium for printing. In this capacity it is, within a given range, largely displacing engraved copper plates and the familiar lithographic stone. When the government introduced the publication of nautical charts, all were engraved on copper in minute detail and with all the skill and beauty the engraver's art could command. This plan was followed for a considerable interval, but gradually as the number of charts increased the task of keeping them correct and up-to-date became formidable—for, of course, a chart is of no value unless frequent revisions keep it authentic as to changes in magnetic variation, in the depths and in landmarks. These multiplying responsibilities made a shortcut in chart-making necessary and as a result aluminum-printing plates came into use.

Aluminum printing plates are prepared by what approximates a photolithographic process. The advantage of this plan over the old idea of lithography on stone can be easily surmised when it is stated that an aluminum printing plate of the size of the average chart weighs between four and five pounds, whereas a lithographic stone of corresponding size weighs six hundred twenty pounds. Moreover the cost of the aluminum plate is about four dollars and sixty cents. The expense of preparing a lithographic stone of equal usefulness would amount to nearly two hundred dollars.

A bridge-building record has been made by the Royal Canadian Engineers while in camp with the first over-seas contingent at Valcartier, about nineteen miles above Quebec on the Canadian Northern. Three hundred men erected a three hundred fifty-foot artillery bridge across the Jacques Cartier River, which separates the main camp from the artillery practice grounds at the base of Mounts Heene and Irene of the Laurentian Hills, in exactly four hours and ten minutes. This is said to constitute a world's record for spanning rivers. The Engineers are now at the front fighting for the British Empire.

Lyric Men for "Getting A-Cross." Show Office today at five.

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C. E. TRIP
(Continued from Page One)

next visited the magazines, which are divided off into sections so that the different size charges are kept separate. On top of the various piles of powder were small bottles containing samples of each lot of powder and a small piece of paper, which by its color indicates the condition of the powder. When the powder begins to deteriorate it is sent away and "remade." Today no powder is thrown away. But a very small portion of the powder is kept at the various forts, the greater part being kept in secret places some distance from the forts.

From the powder magazines the men went to the observation tower and plotting room. The details of the "tracking" of a vessel and plotting its position by the "triangulation" method was explained. The allowances for "drift," owing to the projectile's rotary motion, and for "windage" as well as other necessary corrections, are made on a complex board with slides, the principle of which some of the men attempted to explain as being similar to the simple slide rule.

Before leaving the island the crowd gave some lusty cheers for Major Chamberlain and the officers who went with the men and explained the various things to them.

The trip back to the city was rather cool and the engine-room was by far the most popular place, some of the men going to sleep on top of the boiler.

FIFTEEN YEARS AGO

Fifteen years ago today the Sophomores defeated the freshmen in both the Cane Rush and Football game. These were then the athletic events of Field Day. The "Rush" is described as follows:

"As in former years, the freshmen formed in concentric circles about the cane, with an outstanding, protecting guard. The Sophomores formed in two wedges at about twenty yards distant from the freshmen. When Referee Jouett gave the signal, the wedges started. Simultaneously the freshmen guard advanced. One wedge was prevented from doing any damage, but the other struck the knot of freshmen full and square. Immediately confusion became 'worse confounded,' and to the onlooker there was naught but a jumbled heap of bodies, most inextricably mixed, struggling, apparently without aim.

"When the signal for the Rush to cease was given, little attention was paid to it. Finally, however, the tangled mass was torn apart, and the hands on the cane were counted, 20 to 8. The Sophomores once more were conquerors, and the possibility of carrying canes was annulled for the freshmen."

FACULTY NOTICE

Hydraulics Course X and Course XIII—Text-book, Russell's Hydraulics. For first exercise, read Chapter I and prepare Arts. 6 to 12, inclusive of Chapter II.

WALTER HUMPHREYS,
Registrar.

FRESHMEN MAKE POOR SHOWING AT ANDOVER

Fail To Finish Fifth Man, Dartmouth's Freshmen Win—Harvard Second.

The Dartmouth freshmen won the annual invitation cross-country run held at Andover Friday with a total of 40 points. Harvard '18 took second place while Worcester Academy finished third. The Tech freshman team suffered an overwhelming defeat only four men crossing the finish line. These four placed as follows: Campbell, 19; McVickar, 23; Lippitt, 28; Greeley, 29. Mumford, Hamilton and Bond were unable to complete the course.

Individual honors went to Heffinger of Harvard, who covered the four-mile course in 22 minutes and 40 seconds. Twenty seconds behind him came Smith of Dartmouth, while Drabble of Dartmouth crossed the line five seconds later. The time was very fast, considering the wretched condition of the course, which was covered with ice and snow. The team scores:

Dartmouth '18	2	3	4	7	24	40
Harvard '18	1	5	8	14	16	44
Worcester	9	10	11	12	13	55
Andover	15	17	18	20	21	91
Penn. '18	6	22	25	26	27	106
M. I. T. '18	19	23	28	29	*	

*Failed to finish fifth man.

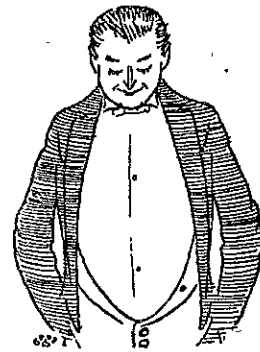
COMMUNICATION

Editor in Chief of The Tech,
Dear Sir:

Several rather sarcastic comments on the part of the freshmen, usually addressed either to the ballot committee or to The Tech, lead me to offer the following explanation and to assume myself whatever blame is due.

It was claimed that The Tech failed to print the name of G. B. Hutchings as a candidate for treasurer, also that his name should have appeared on the ballot. The list published in The Tech was exactly as submitted by the nomination committee and contained the name of every man for whom a nomination paper had been received. Monday afternoon, just before the ballots went to press, while I was telephoning concerning the nomination of A. R. Evans to fill out the necessary three men for treasurer, I was informed that Hutchings had been nominated for secretary. Winslow, the chairman of the ballot committee, and myself immediately called at the Cage and asked that a thorough search be made. This was done, and did unearth one nomination but not the one in question. Hutchings' nomination has not been received at all up to this time. Had we known that he was a candidate for treasurer he would have been nominated in place of Evans, but this was not discovered until after the ballots had been printed.

There are one or two mistakes on the ballot proper. The time for the closing of the polls is Wednesday, Nov. 25th, not the 26th as appears on the ballot. This is again up to me,
(Continued on Page Five)



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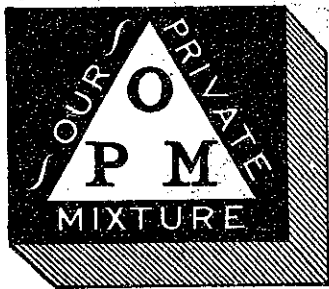
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TECHNOLOGY WRESTLES BEVERLY Y. M. C. A.

Season To Open Next Saturday Night With Meet At Beverly.

The wrestling tryouts for the Beverly meet next Saturday night will be held on Wednesday and Friday afternoons from five to six. The heavy-weight and 158 pound classes will try-out Wednesday afternoon and the other classes will hold their trials Friday. The team will probably be picked from the following men: 125-lb. class, Means, Loo and Sanger; 135-lb. class, Durkee, Hoffman, Blodgett, Giles and Rounds; 145-lb. class, Morse, Peterson and Goodell; 158-lb. class, Wood, Bond and Mertz; heavy-weight class, Crowell, Poteat, Gokey and Gleason. There will be nine bouts, two in the 125-lb. class, three in the 135-lb. class, one in the 145-lb. class, one in the 158-lb. class and two in the heavyweight class.

CORNELL WINS

(Continued from Page One)

who has been running fourth man on the Tech team, was protested under the new rule debarring freshmen, and was not allowed to run. Nye ran in his place, but he has not been training and was unable to do himself justice. Tech on the whole ran a fair race but hardly lived up to expectations.

The course is the hardest over which an intercollegiate run has ever been held. Nearly all was through fields or over newly built roads which were very soft. The sun was just warm enough to take the frost out of the ground and make the course wet and muddy nearly all the way.

At the start Harvard, Yale and Princeton went away fast and held the lead for the first mile. The Cornell team was running well bunched within striking distance of the leaders. Morrison of Princeton led for four and one-half miles, when he weakened and was passed by both Potter and Wenz. As the leaders came onto the track Morrison sprinted, passing Wenz, but was unable to catch Potter, who finished with a lead of fifty yards.

Cook and Benson picked a position well up in the bunch at the start and stayed there through the race. Brown lay back all the first part of the race, holding himself in for the last mile, where he let out a sprint which carried him up through the pack and across the tape in 14th place.

Seventy-five of the seventy-seven men who started finished the grind. The team scores were as follows:

1. Cornell—1, 5, 8, 9, 12—35.
2. Harvard—6, 13, 15, 19, 24—77.
3. Yale—4, 10, 20, 27, 30—91.
4. Technology—11, 14, 18, 34, 36—113.
5. Pennsylvania—7, 16, 25, 29, 37—114.
6. Princeton—2, 23, 26, 35, 43—129.
7. Colby—3, 22, 38, 42, 45—150.
8. Dartmouth—28, 31, 32, 39, 41—171.
9. Brown—21, 33, 40, 49, 52—195.
10. Columbia—17, 46, 48, 50, 53—214.
11. C. C. of New York—44, 47, 51, 54, 55—251.

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VULCANIZED FIBRE PROVES INTERESTING

Mr. Chas. Almy, Jr., Tells Chemical Society Of Its Manufacture.

Mr. Chas. Almy, Jr., M. I. T., '10, gave a most interesting talk before the Chemical Society last Friday night upon the manufacture, properties, and uses of the Vulcanized Fibre which is made by the American Vulcanized Fibre Co. of Wilmington, Del., for which he is Chemical Engineer. This interesting substance, which is made by a remarkably simple process involving principally concentrated zinc chloride and high pressures, possesses a very unusual combination of the properties of high tensile, compressive and shearing strengths, slow specific gravity, and high dielectric strength, which renders it very useful in electrical work and many other lines.

The speaker told of the difficulties which were encountered in developing the process of manufacture, and of how they were overcome by ingenuity and the application of the principles of Physical and Industrial Chemistry, until now the fibre is of such all around utility that it is used for purposes varying from shims for railway ties to watchfobs and waste baskets. At the close of the meeting, samples of the product were distributed among the men present.

FRESHMAN WRESTLING

Men Must Report On Mat Three Times Each Week.

The following names have been handed in to Frank Kanaly as excused from gym work on condition that they report for wrestling three times a week: Blodgett, Clark, Collins, DeSalbo, Dumit, Loucks, MacFarland, Magoun, Means, Nangle, O'Connor, Parker, Philbrook, Pinkham, Sanger, Labor, Turner, Wells, Wiley and Wirt. These men, in order to substitute wrestling for gym work, must report to Frank Kanaly either on Monday or Tuesday and on the wrestling mat on three of the following afternoons: Monday 3-6, Tuesday 3-5, Wednesday 4-6, Thursday 3-5, and Friday 4-6. Any other freshmen who wish to wrestle instead of taking gym work may report after their regular gym. If they show enough enthusiasm they may be excused from gym.

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MEN IN WAR
(Continued from Page One)

the Crown Prince. His regiment was one of those which has recently been reported as annihilated. No definite word has been received by Schaurte's friends in this country.

Henry Lamy, of Paris, a graduate of the Mining Engineering department in 1913, was doing the last year of his required military service in the French army at the outbreak of war. He was therefore among the very first to be sent to the front, and was engaged in four battles against the army of the Crown Prince. He was twice slightly wounded in the head, and finally had his left arm disabled by an exploding shell. He was taken to a hospital, remaining there until September 23rd, and on November 10th, returned to the front. Paul Gautier, of Nice, France, a mechanical engineering student of the class of 1915, is also thought to be in the French army, as he has not returned to the Institute.

Edward Steere, of Manila, has enlisted with a Canadian regiment, and is now in either England or France. Steere was a special student in Course I, in 1912.

In addition to these, Prof. Albert LeMonnier, formerly of the architectural department, and Prof. Duquesne, who has been connected with the architectural department of both Tech and Harvard, are known to have joined the French army.

"GETTING A-CROSS"

(Continued from Page One)

The plot of the play is somewhat complicated and full of amusing incidents. A Technology graduate, the hero of the story, is in love with the daughter of a French general. A German spy induces the general, who has been gambling heavily, to sell the plans of Paris, and war is declared the next day. The American plays a prominent part in recovering the lost plans, which turn out to have been false, and in this way manages to get the general to consent to the marriage. Several amusing incidents pertaining to the situation of stranded American tourists, and how they finally managed to "Get A-Cross," enliven the play throughout.

The author has written the play so that the music, dancing and lyrics, which play such an important part in the production, are given a wonderful possibility.

The Show this year will be given in Northampton, Malden, Boston and Wellesley.

COMMUNICATION

(Continued from Page Three)

as I happened to be the proofreader when the proof was submitted.

I offer this explanation in order that the committee, which has performed its duty in an altogether creditable manner, may receive the credit that is due it, and not be blamed for these slips.

Very truly
CHARLES W. LOOMIS,
Temp. Chairman 1918.



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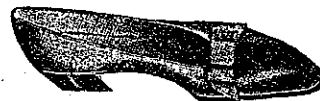
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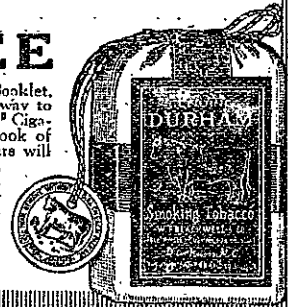
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CHAUNCY HALL SMOKER
 (Continued from Page One)

end when he left Chauncy Hall and also that the school was not a cramming school; Cramming he termed as "legalized prostitution." The talk led to an interesting account of the time when he crammed students for Harvard. He systematized the questions used in examinations for the previous ten years. These questions he sifted down to about five of the most important on which he spent all the time. Six lessons, of two hours each, prepared the student for the examination. The tuition was five dollars a lesson.

Mr. Kurt urged the club to increase its membership list and make it include every Chauncy Hall man in the Institute. The present membership is only about fifty percent of the men qualified.

The club decided to have a picture in Technique, if possible. The business meeting closed at 9.20. Refreshments were then served and a social time was enjoyed for the rest of the evening.

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