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 Simon Parkinson, a member of the class of 1916, and a special student in Course IV. Parkinson was leaving Spain in "A Royal Johnnie," last year's Tech Show, when he was arrested and put in jail.

Another member of the class of 1916, and a special student in Course IV, Parke, has been in the Imperial Guard, and is now, seeing service in Europe.

Werner Theodore Schaute, of the class of 1915, has been in Dusseldorf, Germany, doing his bit for the Boys in Uniform.

The 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 work now will be given an immediate chance to get into the work. Sophomores in particular 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 party leaves Park Street 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 in "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 studying architecture, taking the engineering option of the course. He has been particularly prominent among the actors, having worked on The Tech, 1915 Tug-of-War Team, Tech, 1915 Tag-of-War Team, Technique, 1915, and has taken part in the Glee and Mandolin Clubs, as well as in the last two years' shows. Both last years was he 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.

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 "Rodigrimmsen Cecelie" and 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 projectile was explained. Then

(Continued on Page Three)

CHANCEY 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 Shurtleff 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 was accepted by 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 afternoon 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 a school.

(Continued on Page Four)

LYRIC COMPETITION

McDaniel Will Meet Writers Today.

I. B. McDaniel, author of "Getting A-Cross," will meet all men who wish to write Show lyrics in the Show Office today at 5 o'clock.

CORNELL WINS ANNUAL CROSS COUNTRY RUN

Technology Takes Fourth Place Captured book First in 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. P. Cole, Jr. of Cornell was the individual wildcat, covering the six miles in 34 min. 30 sec., beating out Morrison of Princeton by fifty yards. Wals of Colby sprung a surprise, finishing in third place, after staying with the leaders all the afternoon.

Cook, who finished 11th, was the first Technology man to break the tape. Brown ran a strong race, finish- ing up from 35th to 14th place in the last mile of the course. The other scoring members of the Tech team were P. Healy, 34th and Litchfield 36th. Bradley.

(Continued on Page Four)

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. Circula- tion Man, The Tech Meet, Upper Office.

1:00—E. E. Trip to International Eng. Works at Framingham, Meet at Lowell.

4:15—Board Meeting. In Eng. 400.

4:30—Boat Club, Officers Meet, 21 Rogers.

5:00—Glee Club Rehearsal. "Unity." Meeting of All Men Writing To Write Lyrics for "Getting A-Cross." Show Office.

Wednesday, November 25, 1914

5:00—Glee Club Rehearsal, Union.
THE TECH


Published tri-weekly during the college year by students of the Massachusetts Institute of Technology.

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OFFICE, 42 Trinity Place. Phone 2956. Night Phone Back Bay 5427.

MONDAY, NOVEMBER 23, 1914.

IN CHARGE OF THIS ISSUE.
Editor: J. M. DaBell, '17.

THE TECH

ENGINEERING AND SCIENTIFIC NOTES

The long series of tests conducted by the United States government to determine how 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 0h. 17m. 26.56s. 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 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 3831 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 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 the number of charts increased to such an extent that they were found to be too cumbersome for practical use.

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 photographic process. The advantage of this plan over the old idea of lithography on stone can be easily assessed when it is considered that when a lithographic stone is exposed to the light, it is found to contain a Gum, water, and a new substance which has not been anything in the depths or in the environment. These multiplying responsibilities made a shortcut in chart-making necessary and as a result aluminum printing plates came into use.

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

I T S A ill wind that blows nobody good, but it's a better that blows nobody ill. That ain't nothin' but good in VELVET.

Those world famous pipe smoking qualities that Nature puts into Kentucky's Burley de Lure are brought out full, aged-in-the-wood, mellow perfection in VELVET, The Smoothest Smoking Tobacco. 10c tins and 5c metal lined bags.

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TEACHER OF SINGING AND COACH
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DINE AT THE
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Hotel WESTMINSTER
Special attractions every evening before and after the theatre. Continuous music. Singing.

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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 46 points. Harvard '15 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, 25; Gready, 29. Mumford, Hamilton, and Bond were unable to cross the course.

Individual honors went to Helfinger of Harvard, who covered the four-mile course in 22 minutes and 49 seconds. Twenty seconds behind him came Smith of Dartmouth, while Drable 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 4 7 24—49
- Harvard '18 . . . 1 5 6 14—44
- Worcester . . . 9 16 11 13—35
- Andover . . . 15 17 18 20—32
- Penn '18 . . . 6 22 25 26—32

M. 1, L. 12 . . . . 19 25 28, 29 . . . .

*Failed to finish fifth man.

Communication

Editor in Chief of The Tech,

Dear Sirs,

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 assure myself whatever I say is due.

It was claimed that The Tech failed to print the name of A. R. Hutchings as a candidate for treasurer, also that his name should have appeared on the ballot. But the list published in The Tech was exactly as submitted by the nomination committee and contained the names 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 in all out the necessary three men for treasurer, I was informed that Hutchings had been nominated for secretary. Without, 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 uncover 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 printing of the polls is Wednesday, Nov. 25th, not the 26th as appearing on the ballot. This is again due to me.

(Continued on Page Five)

C. E. Trip

(Continued from Page One)

next visited the magazine, which are divided off into sections so that the different side 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, by which its color indicated 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 magazine the men went to the observation tower and plotting room. The details of the "tracking" of a vessel and plotting its position by the "trilateration" method was explained. The allowances for "drift," owing to the projectile's rotary motion, and for "weather" 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 one long cheer for Major Chamberlain and the officers who were 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 Canoe 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 into conic circles about the canoe, with an outstanding, protected 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 which prevented from doing any damage, but the other struck the boat of freshmen full and square. Immediately confusion became worse confounded, and to the policeman 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 spanking was turned," and the hands on the canoe were counted, 29 to 9. The Sophomores once more were conquerors, and the possibility of carrying oars 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 Attaching 6 to 13, inclusive of Chapter II.

WALTER HUMPHREYS,
Registrar.

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The results were as follows:

C. T—RIP

(Continued from Page One)
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Owing to a conflict in dates Mr. Edgar of the Rogers Peet Co. was unable to display on Friday. He will be on hand at the Tech Office Wednesday, however, and will be glad to see all those who wish to look over his line.

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: 135-lb. class, Oblonsky, O. P. M. is mild, fragrant, slow burning, and

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THE PERFECT PIPE TOBACCO

DOES NOT BITE THE TONGUE

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Manufactured by COBB, BATES & YERXXA CO., Boston, U. S. A.

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High Grade Anthracite Coal for Domestic Use

Our Green-Pecanbonis Bituminous supplied to the Institute

CHARLES W. YORK CO.,

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Owing to a conflict in dates Mr. Edgar of the Rogers Peet Co. was unable to display on Friday. He will be on hand at the Tech Office Wednesday, however, and will be glad to see all those who wish to look over his line.

TECHNOLOGY WRESTLES

BEVERLY Y. M. C. A.

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Manufactured by COBB, BATES & YERXXA CO., Boston, U. S. A.
**VULCANIZED FIBRE PROVES INTERESTING**

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

Mr. Chas. Almy, Jr., M. I. T., '90, 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, compression, long-lasting strengths, slow specific gravity, and high dielectric strength, which renders it very useful in electronic work and many other lines.

The speaker told of the difficulties which were encountered in developing the process of manufacture, and of losses which were overcome by ingenuity and the application of the principles of Physical and Industrial Chemistry, until the fibre is of such all around utility that it is used for purposes varying from shoes for railway ties to household 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 account that they report for wrestling three times a week: Hodgett, Clark, Collins, DeSilbo, Dumas, Lovics, MacFarland, Magoun, Means, Nangle, O'Connor, Parker, P----, Philbrook, Pickham, Sanger, Veever, Turner, Wells, White, and Wir. These men, in order to substitute wrestling for gym work, must report to Frank Kanaly either on Monday or Tuesday, the wrestling mat on three of the following afternoons: Monday 2-6, Tuesday 2-6, Wednesday 4-6, Thursday 4-6, and Friday 2-6. 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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Fifth Avenue Boot Shop

New York

Our Agent Will Have Our New English Line of Shoes on Display at "The Tech" Office All Day Today and Tomorrow

"Come and Get Acquainted"

**TECH UNION BARBER SHOP**

Located at the Hotel Westminster

Two minutes' walk from all Tech Buildings. Restored facilities: the most fastidious Bowler can enjoy this fascinating and healthful pastime. Allows reserved and screened for private parties. Come in and enjoy a little fun and exercise between periods.

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**COMMUNICATION**

(Continued from Page Three)

as I happened to be the provost 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.
Photographs at Special Rates

FOR TECH MEN

NOTMAN, 3 Park Street

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- The Smoke of the Smart Set

Smart men of fashion everywhere—clubmen, connoisseurs, millionaire sportmen—have discovered the greater enjoyment and satisfaction in the fresh cigarettes of unique flavor and delicious mildness they roll for themselves, to suit their own taste, from mellow "Bull" Durham tobacco.

GENUINE "Bull" Durham Smoking Tobacco

No other tobacco in the world has the wonderful sweet fragrance and ripe, natural mildness of "Bull" Durham. No other cigarettes have the exquisite smoothness and delightful freshness of "Bull" Durham hand-made cigarettes. "Bull" Durham is a distinctive form of tobacco enjoyment, thoroughly appreciated by smokers of experience the world over.

- The CLoTH Top Boot

In the Feature of the Season

SHOES FOR MEN
THAYER MCNEIL COMPANY
16 West St. 47 Temple Plaoe

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 slitted 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.