

THE TECH

VOL. XXXIII. NO. 155.

BOSTON, MASS., THURSDAY, MARCH 19, 1914.

PRICE TWO CENTS

TECHNIQUE SIGN-UPS WILL COMMENCE TODAY

Junior Year Book To Be Sold at Fixed Price—Edition To Be Limited.

The sign-up books for Technique 1915 are out today. The book is sold at the same price as last year's, \$2.75, of which \$0.75 is due in advance and the remainder upon receipt of the book. The cost of the issue exceeds that of last year's Technique which was the most expensive ever published by \$800.00. This means that each copy will have a face value of \$0.90 more than any previous Technique. This increase in cost of production is due partly to the five full colored plates which have been added, and partly to the higher grade of engraving. In spite of this the price remains unchanged. The 1915 Technique Board claims that this is the best value ever offered by an Institute publication.

Following the custom of the last two Techniques, the Board has definitely decided never to reduce the price of the book at any later date. Not a single copy will be sold after the edition of nine hundred copies is exhausted. It is feared that this strict limitation of the edition will cause some disappointments, but it is unavoidable.

No one can take part in the Rush without a sign-up slip. This will necessitate a little forethought on the part of those who wish to enter.

MR. KEMP LECTURES ON RIO DE JANIERO (Continued from Page 1.)

tions put to him by those present. In reply to one on the telephone system there he said that it was exceptionally bad. Since the city population is largely Portuguese this language is used over the telephones, which leads to confusion, since the numbers 3 and 6 sound almost alike in that language. So for six the term "half a dozen" is used and for three "half half a dozen." As an illustration of the resulting confusion Mr. Kemp spoke of the number "6363." The pay in that country is very high, a common mechanic getting \$250 a month, but the cost of living more than counteracts this. An American engineer living at a hotel would have to pay nearly \$150 a month board and room.

Mr. Kemp's talk was very well received and he was given a rising vote of thanks by the members of the Society. After this he presented to the Union a large panorama view of the city of Rio de Janiero which shows up the outline and general view of the city very well.

DR. JAMES A. FRANCIS TO SPEAK ON "IDEALS"

Popular Men's Speaker at T. C. A. Meeting in Union This Noon at 1.30.

Secretary Talbot of the Technology Christian Association has secured the Rev. Mr. James A. Francis to speak in the Union this noon. Dr. Francis has addressed the noon meetings previously on several occasions, and has become a regular T. C. A. speaker. Two years ago he spoke on "The Blessing and the Curse of Habit," and last year his subject was "The Real Dynamic in Civil Government."

Dr. Francis, well known as a speaker in Greater Boston, is constantly in demand for men's meetings and he has been a frequent speaker at the B. Y. M. C. A. meetings. This year Dr. Francis will speak on "Ideals," and the T. C. A. hopes to have a crowd of men at the meeting this noon at 1.30 that will surpass in numbers the attendance at his previous talks.

HARE AND HOUNDS

Train Leaves Trinity Place for Newton at Two-five.

Next Saturday the Hare and Hounds Club will hold its weekly run at Newton. The runners will leave the Trinity Place station on the 2.05 train and will be able to catch a train back reaching Boston at 5.30.

The course at Newton is one of the most popular among those visited by the club. It consists of a good deal of road work and easy field running with a few rolling hills. There will be two squads, one starting several minutes before the other, so that they will finish at about the same time. The slow squad will set a slow enough pace so that everybody will be able to keep up and nobody should hesitate in coming out because he has done no running this year. The run will start and finish at the Newton Y. M. C. A. Besides the excellence of the course a great attraction for this trip is the swimming pool at the Y. M. C. A. which will be at the disposal of the men. This pool is one of the best and largest in the state.

Tickets will be on sale by Chase Captain Best at the station before the train leaves. The round trip fare will be 25 cents.

SOPHOMORE BASEBALL

The meeting called yesterday for the Sophomore baseball candidates at the Gym was postponed until this afternoon.

"Bob" Storer and "Bill" Barron will speak at the meeting of the Harvard Club at Andover this evening.

MR. KEMP LECTURES ON RIO DE JANIERO

Slides of Capital of Brazil Are Shown at Electrical's Meeting.

Last evening Mr. H. D. Kemp of the Class of 1912 gave a very interesting talk before the Electrical Engineering Society on the Development of Rio de Janiero, where he has been for the past twelve months with the Meade Morrison Coal Handling Co. He spoke first of the large power plants which they are installing there to furnish the electricity for the lights, street railways, and the big cranes used on the docks for unloading vessels. Of all the cities in the world this city is probably the best lighted. He then gave a brief outline of the history of Brazil and its development from a colony of Portugal to a Republic. Its area is about 3,200,000 square miles and it has enormous resources if they could be developed but this seems improbable for the people there are exceptionally lazy. The labor is practically all Portuguese, the natives not being inclined to work and the other nationalities balking at the fourteen to fifteen hours a day work.

Mr. Kemp had a very extensive set of slides of many of the buildings and numerous parks in the city of Rio de Janiero which were shown. Through the city proper there is a big avenue one hundred feet wide which is lined with large buildings, most of which are white stone. This avenue was cut through the city, the property being first condemned and then bought by the government at the value at which it was taxed. There was much opposition for the land was much undervalued, so the government agreed to pay full value upon receipt of the back taxes due in the past twenty years, which would have been paid had the property been fully rated.

After the talk he answered ques-

(Continued on Page 3.)

GOOD REHEARSAL

Principals Sing Solos—Another Rehearsal Today.

The rehearsal of all the departments of the Tech Show yesterday afternoon was very successful. A large number of the songs were tried out, with the various principals singing the solos. The same kind of a rehearsal will be held today, and every man in the Show should be on hand promptly at quarter past four. Mr. Howard will again be in charge.

In view of the fact that only a few of the men are able to get together at any one time for their photograph, no orchestra picture is to be taken.

FRESHMAN GLEE IS PROVING SUCCESSFUL

Over Fifty Have Already Given Names to Committee In Charge.

More than fifty had signed up for the Freshman Glee when the committee in charge met yesterday noon. Several are known to have deposited the required dollar since that time. In order that the expenses may be met it is necessary that a few more men should make arrangements to be present. As soon as names to the number of seventy-five are given to the committee, which consists of Philip E. Hulburd, Chairman, Dudley E. Bell and Paul C. Leonard, all further applications must be refused, as a larger number of couples would crowd the hall.

It is expected that the desired number will be completed within two or three days, possibly by tomorrow noon. The dance is to be in the Hotel Tuileries, on the night of the Junior Prom, from which all Freshmen are excluded. The price is to be four dollars, one to be deposited upon signing up.

INSTITUTE COMMITTEE

There will be a special meeting of the Institute Committee Friday afternoon at five. The report of the committee investigating the reorganization of the Cooperative Society will be considered, and in addition a report from the Tech Advisory Council will be heard.

WEATHER

Today, fair, colder; brisk to high east to north winds.

CALENDAR

Thursday, March 19, 1914.

1.30—T. C. A. talk. Union.
2.00—E. E. Society trip to Everett.
4.00—Show Pony Ballet rehearsal. Room B, Union.
4.15—Cast, Chorus and Orchestra rehearsal. Dining Room, Union.
5.00—Special Glee Club rehearsal. Union.

Friday, March 20, 1914.

4.00—Show Pony Ballet rehearsal. Room B, Union.
5.00—Institute Committee meeting.
5.00—T. C. A. Rooms A and B. Union.
7.30—Architectural Society meeting. Room 42, Pierce.

Saturday, March 21, 1914.

2.05—Hare and Hounds leave Trinity Place for Newton.
8.00—Wrestling Meet. Tech. vs. B. Y. M. C. U. at B. Y. M. C. U.

TECHNIQUE SIGN-UPS OUT TODAY

THE TECH

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THURSDAY, MARCH 19, 1914.

IN CHARGE OF THIS ISSUE.

Editors: W. A. Houser, '15, and
H. Stebbins, '17.

Associates: D. H. Parker, '17, and
M. C. Brock, '17.

Coach Kanaly was probably right in the point he brought out at the track meeting last Monday, to the effect that there is material now dormant at the Institute, which, if it could be brought out, would clinch for us the New England Championship. Besides her own men, of a type imbued with the true Tech spirit of hard and faithful effort, the Institute draws a large body of men from other colleges who have done good work in athletics. If these will only come out and put in a little time this spring, the resulting championship season will be just the right start toward the accomplishments which await us in the new Field across the river.

A notable instance of lack of system comes from the Freshman Class, which seems to have several mutually exclusive committees for each piece of work. One vetoes the action of the other, which immediately takes great pains to reciprocate. Something of this nature took place with regard to the baseball managership, and now a similar situation seems to exist in the announcements concerning the "Prom," or "Glee" (according to which committee is speaking) which the class is planning. They take turns at contradicting each other's statements and blaming THE TECH for having printed them. We request that hereafter all information given us for publication be accompanied by sworn statements from all the class officers.



Things certainly look promising to Technology for the title in the New England games at the Stadium the last of May. Dartmouth, who was the winner last year, has lost more heavily than any of the other teams, while Tech has a lot of good material and did not suffer very severely at graduation last June. Maine and Holy Cross are looked upon as the runners-ups for the championship.

Miller, 1915, and Seymour, 1917, were working out with the hammer yesterday in the yard by the gym. These are the only men who have yet reported in that event. McLeod will probably be out to the Field as soon as it opens. With this trio the hammer should be better off than for a number of years.

The track meeting last Monday was one of the best attended of any during the last year or two. The difference between this meeting and the Cross-Country meeting last spring when about fifteen men were present was quite noticeable.

A good squad of track men have signified their intention of coming out for the spring work. About eighty men in the Institute are expected, according to indications, to report during the next week for regular work.

The Hare and Hounds run at Newton next Saturday offers a good opportunity to the Freshmen and Sophomores who are getting in training in preparation for the Freshman-Sophomore Cross-Country run that will probably be held on April fourth.

The Freshmen who ran in the meets at Andover and Lowell last week have been given a lay-off for one week by Coach Kanaly. They start work again Monday, although many of them will probably go on the run at Newton Saturday.

The question of sending a relay team to the Penn Relay Carnival still hangs undecided in the air. No one knows at present just what will be done about it.

TRIP TO GAS PLANT

Electrical Society Will Make Make Excursion to Everett.
The Electrical Engineering Society has planned an excursion to the plant of the New England Gas and Coke Company at Everett this afternoon at two o'clock. The party will meet at that time at the E. E. Bulletin Board, Lowell Building, and will be limited to twenty-five. Do not sign up if you are not going. This will be a very interesting trip to those who have never seen gas and coke made. A release has been signed so that all persons going on this trip assume all liability in regard to personal safety or loss. The fare to Everett is five cents.



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The Championship of the North Eastern Basketball League has been decided in favor of Union. The deciding game was played at Tryp on the R. P. I. court.

A branch of the Association of College Alumnae has been formed at Oberlin. This organization now embraces thirty-four educational institutions of the country.

CHESS TOURNAMENT

Much Interest Is Being Shown This Semester.

The officers of the Chess Club are very much pleased with the interest which is being shown in chess this semester. Almost any noon half a dozen games may be found in progress in the Union, and with the regular practice a number of the men are consistently putting up strong games. The first round of the Club Tournament which is now going on is completed, and has produced some very good play. The results of this round are as follows: Jones won from Borden 2-0, Lewiton won from Paris 2-0, Baxter won from Drummey by default, Saladrigas won from Barker 2-0, Woodbridge won from Kenigsberg 2-0, Neumann won from Stringfield 2-0, Dean won from Dunning 2-0, and Johnston won from Sears 2-1.

GLEE CLUB REHEARSAL

There will be a special rehearsal of the Glee Club at 5 o'clock today in the Union. It is absolutely essential that every member be on hand. The coach will be present and those men absent will be fined double.

SCHOLARSHIPS ARE ON THE INCREASE

Report to Faculty Shows That Grants to Freshmen Were Not Misplaced.

A very interesting report has been presented to the Faculty of the Massachusetts Institute of Technology, which sets forth the statistics of scholarships, these being a measure of the number of students who otherwise would have been financially unable to prosecute their studies. In view of the figures in salary that the students get within a few years of graduation, such statistics are of interest, for they measure the capital that an education in a technical college represents.

The scholarships at the Institute are intended to be helps to deserving young men of slender means. There are available the funds of the Institute itself, devoted to the purpose, while on account of the State grant to the school the Commonwealth names some of the students who are to receive aid.

An abstract of the report of the Committee of which Dr. Davis R. Dewey is chairman follows:

Year	—Number Aided—			Total	%
	Tech	State	Total	Registration	Aided
1907-08..	175	40	215	1415	15.2
1908-09..	199	47	246	1461	16.8
1909-10..	199	54	253	1479	17.1
1910-11..	187	56	243	1506	16.1
1911-12..	187	80	267	1566	17.0
1912-13..	207	99	306	1611	18.9

It will be noted that there has been a considerable increase in the number of grants. In 1908-09 the number of Institute grants was swollen on account of the distress caused by the financial disturbance of 1907. The increase in State grants in 1911-12 was due to the doubling of the number of State scholarships by the Legislature at the time of increased State aid, two whole scholarships being assigned to each senatorial district. In the following year a few of these State grants were split by the State Board of Education, thus raising the total to 99.

The number of grants has increased a little more rapidly than the total registration of students. In 1907-08 approximately one student in every 6.6 received a grant, and in 1912-13 the proportion was one to every 5.3. It may be thought that this increase has been due to a lowering of standard by the scholarship committee, but such suggestion is not true.

With reference to the grants made by the State, the committee makes note that under the present law all applications of students must be approved by the state senator. Some of the senators follow the policy of approving all applications of worthy students from their districts, while others restrict this privilege to only two. If the latter method is followed, the State Board of Education has no alternative but to make the awards according to the senator's wish, provided, of course, that the students have a clear entrance record. The State Board of Education, as has always been its policy, secures from the Institute the record of students. Technology is, therefore, largely safeguarded against awards being made

COMMUNICATION

To the Readers of THE TECH Que Es Esto?

Preparations are fast progressing for the night of March twenty-eighth. The actors are daily rehearsing in order that their stunts may make all former performances seem like the worst of imitations. A special steamer has arrived from China, bringing with it all the apparatus necessary to entice the ghosts of former days from their resting places.

Steward Colton has ordered the products of all the beehives for miles around, for ordinary wax wouldn't do for the floor on this memorable occasion. Early this morning, long before any Tech men were awake, large packages were beginning to arrive at the Union. The greatest secrecy was maintained and later in the day a special guard arrived to keep the curious away. Strange rumors are going around as to what these packages contain.

And as to details. A Cosmopolitan Club evening needs no advertising. This is absolutely the first time in the history of the club that admission has been charged. Almost every man in Tech has at some time or other enjoyed a Cosmo. evening. Now you all have a chance to show your gratitude. Every act that we are going to put on will be worthy of Tech, for a standard has long since been established here and must be maintained. Our checking system is based on the experience of many former entertainments and will be as near perfection as can be hoped for. The only thing that is troubling us at present is how to accommodate the hundreds that have signified their intention of being there.

Remember that there will be no numbered seats so if you want to see well, be sure and come early for Huntington Hall fills up quickly.

(Signed)

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PRETTY MRS. SMITH

NEW DROP-HAMMER

New Machine Installed in Shops for Drop-Forging.

The big drop-hammer lately installed in the mechanical laboratories for demonstrating the process of drop-forging was put into service for the first time yesterday. Mr. Brown, an instructor in the department, gave a comprehensive talk on the applications of this kind of forging in modern industry. He said in part, that the great advantage of the machine lies in its abilities to duplicate work with great accuracy, and in its power to increase the output of a plant.

The hammer is the product of the Billings & Spencer Co. of Hartford, Conn. After the instruction, a number of the students were given the opportunity to try the machine, which is to be made a regular feature of the instruction.

SCHOLARSHIPS ARE ON THE INCREASE

(Continued from Page 3.)

to students who have a poor record, but not against awards being made to students who may not be considered in severe need.

The amounts awarded from Institute funds (not including the Rogers fund) have increased from \$20,437 in 1907-08 to \$23,255 in 1912-13.

Thirteen percent of the scholarships last year were granted to Freshmen. It has occasionally been questioned whether it is prudent to give such aid to first-year students. As throwing light on this question the committee says that there is some risk in selecting students early in their course, but examination of the records shows that the judgment of the Committee, on the whole, has not been misplaced. Of the 17 Freshmen in the class of 1911 who received some aid in the year 1907-08, all but one graduated. The exception left during the first term of his third year in good standing as far as his studies were concerned. And so in the class of 1912, there were 25 Freshmen aided from the Institute funds; and of these, 22 graduated. As evidence of the effort of the committee to maintain a high standard of scholarship as a condition of receiving a grant, 12 of the awards for the second term were made subject to good records to be secured during the first term. Eleven of these students fulfilled the conditions.

The committee was obliged to refuse 59 applications, divided by classes as follows: Seniors 15, Juniors 15, Sophomores 23, and Freshmen 6. During the past year seven full grants and two half-grants were made to students resident in Cambridge, and it is understood that a number of Cambridge students will hereafter be selected for scholarship aid.

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