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We Lead, Others Follow
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New Constitution is Plan of New Yorkers
The first meeting of the newly elected council of the New York City Club was held yesterday. After the constitution had been signed by the members it was decided to give out certificates of membership to those who had joined the club. It was further moved and carried that the club send out personal letters to all entering freshmen next year in order to create as much interest as possible in the club. The club has a mail box in the lobby of the main buildings. Any suggestions as to policy should be addressed to Box 106.
The next meeting for the entire club will be held on Saturday, June 2, at 12:25 in the Faculty and Alumni room. Everyone is urged to be present in order to decide on the activities of the organization for next year.

Notices and Announcements

OFFICIAL
FRESHMEN IN METALLURGY
First year students registered in Metallurgy, and any other first year men interested in taking this course, are asked to meet Dr. Waterhouse in Room 8-309, Tuesday afternoon, May 29th, at 4:15 P. M., for a short conference.

REGISTRATION MATERIAL
For those taking summer courses is now ready and may be obtained in room 10-100.

LAB DEPOSITS
The balance on laboratory deposits is now ready for all students except those taking chemistry and may be obtained at the Cashier's Office.

UNDERGRADUATE
T. C. A.
All students who obtained rooms through the T. C. A. Room Registry are asked to return the cards which have been sent out to them, asking them if they are satisfied with their present rooms and whether they will occupy them again next year.

MUSICAL CLUBS POSTER
Competitions for Musical Clubs poster for next year are now on and will be held until October 13, 1923. Open to anyone connected with Institute.

U. E. B.
Any men not having received samples of Colgate's shaving cream and tooth paste may obtain the same by calling upon the U. E. B. in the T. C. A. office.

BOOK EXCHANGE
Many men have money due them for books sold by the T. C. A. Book Exchange. This money may be obtained preferably from 1:00-1:30 daily.

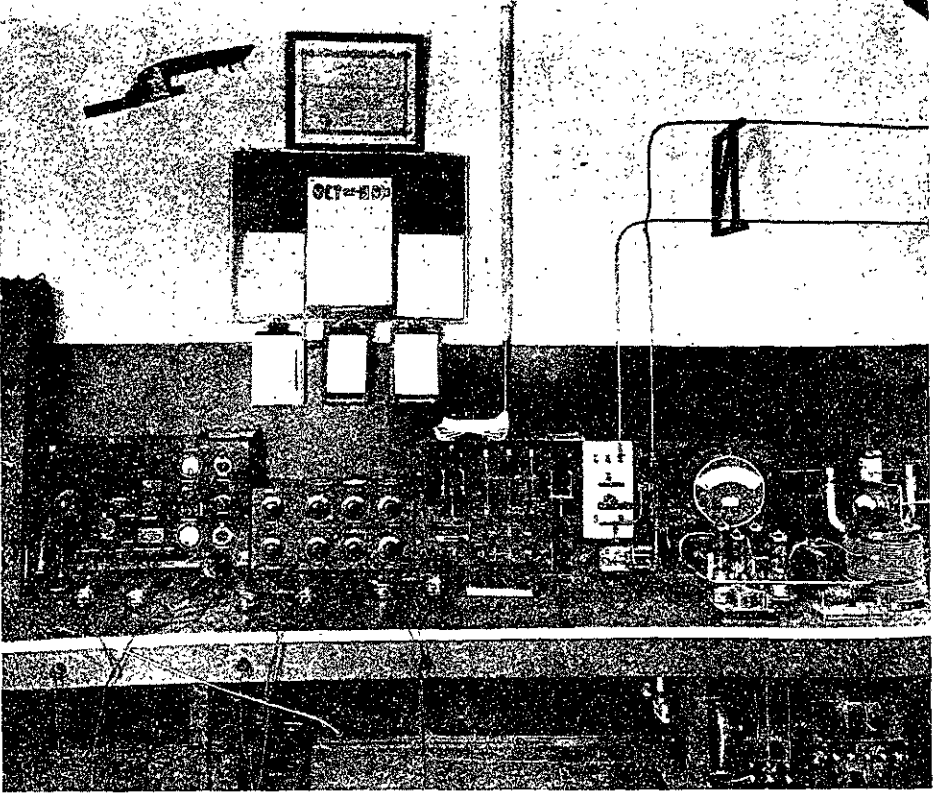
NEW YORK CITY CLUB
Meets Saturday June 2, in the Faculty and Alumni room. Plans for next year discussed so it is important that everyone interested be present.

U. E. B.
Any men desiring jobs during the summer school session please call at the U. E. B. and revise their cards to indicate this.

Dances
LAST DORM DANCE
Of the season will come tonight at 8:30. It is formal and will last until 1. Tickets can be obtained from any member of the Committee or the dormitory superintendent for \$3.

Meetings
STYLUS
Important business meeting in Walker Tuesday, May 29, at 5.

IXM, A Record Station



When the radio station was started at the Institute by the M. I. T. Radio Society, the purpose of its sponsors was to make IXM the foremost amateur radio station in the country. That this aim has been to a certain extent reached was demonstrated in a talk by Hiram Percy Maxim, president of the American Radio Relay League, before amateurs assembled at the First District banquet. Mr. Maxim said that the achievements of IXM have made it the "foremost college radio station in the country."

Transmission over long distance on low power and covering moderate ranges consistently are the features of amateur radio which appeal most to outsiders. The Technology station was one of the first to use continuous wave transmission, and since it began to use this system it has made many long distance transmission records. That consistent transmission has been effected is well demonstrated by the hundreds of cards from every state in the Union that have been received reporting the signals of IXM.

The first record of note by IXM was made early in 1921, when its signals were reported by an amateur in the Panama Canal Zone a distance of over 2000 miles. The first amateur transatlantic tests were held in December of the same year, when an American, P. F. Godley, was sent to Ardrossan, Scotland, to listen for American stations. English amateurs also participated in the listening. During these tests IXM was reported as being one of the most consistent stations heard on the other side.

The attention of the entire amateur world was drawn to IXM in April, 1922, when the signals of our station were heard by 6ZAC, a station in Hawaii owned by Mr. C. J. Dow. This distance of over 5000 miles was at that time the record for long distance amateur transmission. The transmitter which made the record used two 50 watt vacuum tubes. The same amateur again reported the signals of IXM in October, stating that they were much louder than before, al-

though exactly the same power was being used at this end.

The improvement was probably due to a new aerial, which was erected in May, 1922, and is the one now in use at the station. Curiously enough the erection of this antenna from the raw materials was started one evening at 8 o'clock. By 1 o'clock the aerial was finished and in place, and by 2 o'clock was being used in communicating with an amateur in Milwaukee. The aerial is a "cage" made up of two 100 foot sections of four wires each, the upper section inclined at about 30 degrees, and the lower section forming the nearly vertical lead-in. The aerial which this one replaced was an ordinary four wire flat-top.

The station was entirely remodeled last summer with the object of making it more permanent, but flexible enough for a wide range of experimental work. Two benches were put in, one on each side of the room. One of these is shown in the illustration. Practically all of the actual transmitting and receiving instruments, except generators, are mounted on this table.

The first set on the left is the low power CW transmitter. Next in order are the receiver, the power control panel, and finally the transmitter proper, with the tubes in use when the picture was taken.

Among the more recent records of IXM is transmission to England last November without prearrangement with English listeners. During the transatlantic tests the following month, signals from IXM were heard in England, France, Holland, and Switzerland. During the first five days of these tests only 50 watts were used at the Institute station, but the signals were heard three out of the five nights. A 250 watt tube was used for the last half of the tests, with the result that IXM was heard in both France and England on every one of the five nights.

Those experimenting with radio transmission on very low powers should be interested in the auxiliary continuous wave transmitter at IXM.

This set is a Signal Corps outfit which uses one Western Electric VT-2 for an oscillator, and has a modulator tube for telephony. On straight CW with an output of only two or three watts, stations in Chicago and Cleveland have been easily worked with this set.

The present main transmitter at the station consists of one 250 watt tube which was installed February 2. It is arranged to use either rectified 60 cycle or 500 cycle alternating current, the latter power supply giving a beautiful flute-like, modulated signal which is very useful in calling.

The most recent undertaking of IXM is the transmission of standard wave lengths for the calibration of receiving sets. These tests, which are accurate within one half of one per cent, were begun several weeks ago. They are held every Monday night, and cover from 110 to 540 meters in 10 and 20 meter jumps. Different parts of this range are covered in the hour tests each week.

The success of Technology's radio station is due largely to the co-operation afforded by members of the research division and the dynamo laboratory of the Electrical Engineering and interest the radio society has obtained apparatus which has enabled it to do many things which would otherwise have been impossible. The Mil-department. Through their efforts itary Science department has also contributed very materially to the success of the station by loaning apparatus.

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"We really need money for the Laboratories," remarked the Chemistry Professor.
"Say, that's an idea, too!" Jump was more and more enthusiastic. "We'll have an explosion or two just to advertise the place, then announce courses in cosmetics, permanent blonding and synthetic cocktails. We'll just pack 'em in. You see, we must teach things that men and women can really use when they go out into the great world and have to fend for themselves. Help them to make good. Golf—slang—pool—after-dinner speeching—flirting—modern stuff, see?"
"We were thinking of building a Greek Theatre," said a young instructor with a pink necktie. "That would be modern, wouldn't it?"
"Bimmy! Sure thing—Greek Theatre. Not too Greek, though, not so you could notice it. Greek in name only. Have the Follies there occasionally. Nemo Follies, and a musical comedy every little while. Fine."
And, as the Faculty and Trustees put in fresh cardamon seeds, he figured up his profits.
"Ought to pay a good 15% on the investment," said B. Jump. "All flourishy. I'll go right ahead, while you're having the buildings painted purple."

And, in a few days, blazing from the billboards of a dozen cities:
KNOW MORE OF NEMO
The University with a Kick
Livest Wisdom Joint in the World!
And, in a month, herds of shaggy youths with diagonal coat pockets and bobby girls with nine-inch ear rings swarmed over the campus of Nemo. And then, Wug! The festivities began to commence to start. The Female Pistic Tournament filled the new wooden Stadium with cigarettes and lip-sticks. The Nemo Saxophonic Jazzers were giving nightly pop concerts. The Chemical Laboratory staged a Pyrotechnic Display every Saturday night, and, at crowded matinees, the Grand Oratorical Contest filled the old Chapel to hear the recital of Prize Winning, hand-made, jump and lively Limericks.
Where were the Professors, all this time? Hard at work. A decent living was assured them without raising their salaries—that of course would be unparliamentary—and, by means of concessions for selling peanuts, ice cream and hot dogs at all carnivals and dances, they were enabled
(Continued on Page 4)

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