

The COOPER PIONEER

ART SCIENCE



Vol. I.

FRIDAY, JANUARY 28, 1921

No. 1

COOPER DAY TECH DEFEATS MANHATTAN IN INTERESTING GAME

On Saturday evening, January 8th, at the Savage Gym, the Cooper Day Basketball Team defeated the Manhattan College Five in the most closely contested game that the Cooper team has yet played. That it was so, is clearly shown by the fact that the final score was 21-18.

Both teams were game to the end, for it wasn't till the last few minutes of play that the game was decided in our favor. At the end of the first half, Cooper lead by a score of 6-3, Rhodes, Diamond and Meier being "responsible" for one field goal each. In the second period both teams loosened up and accounted for 15 points each. It was during this period that the score see-sawed from one side to the other, giving the spectators good cause for cheering. The Manhattanites, unable to break through the defence of Capt. Meier, Diamond, and Rhodes, resorted to long shots; in this way caging six field goals from long distances, Hemlin, the Manhattan center, accounting for three of these shots. Much credit must here be given to the "minute" Freda, the Manhattan forward, who despite a severe injury to his nose in the early part of the game, still would not leave the line up. He was much applauded for his gameness.

The star of the evening was our own Johnny "Kid" Bossert. Spurred on apparently by some *One* in the balcony, he lead the attack of the Cooperites by dropping in four difficult baskets. Capt. Meier then found time to add two more and Griffiths the "Skeptical" netted two pretty ones from difficult angles. Our Hal Rhodes played his usual hard and steady game, making frequent openings for the forwards to score.

The team lined up as follows:

	F. G.	FOULS
Bossert, R. F.	4	
Griffiths, L. F.	2	1
Rhodes, C.	1	
Meier, R. G.	2	
Diamond, L. G.	1	
	10	1

Total 21 Points

Dancing, as much as there was of it, was enjoyed after the game.

SENIOR DANCE OF SCIENCE STUDENTS A GAY AFFAIR

The Cooper Union Science Class of 1921 held its Senior Dance on Saturday, January 22, in the Grand Ballroom of the Park Avenue Hotel.

The chemical, electrical, civil and mechanical engineering students of the day and night departments combined to make this affair a tremendous success.

Once for all it has established that engineers can dance.

It is not yet known which helped most to inspire the engineers in their rendition of the terpsichorean art. Some think it was due to the irresistible jazz band. Others winked slyly and remarked about the punch; and, by the way, there were two kinds of punch, one "strong," and the other with less "kick." Needless to say, only the aforementioned was in demand.

Both the Nantucket and the Broom Dance were responsible for many new friendships, and throughout the whole evening a spirit of sociability existed unparalleled in the affairs of Cooper.

The first of the Faculty to arrive was Prof. Enders, and the Prof. was certainly given a warm welcome. Others of the faculty present were Prof. Foss and Mr. Tanzola. They all expressed their admiration at the spirit prevailing.

During the evening the victory of the Cooper Union Night Basketball Team over the Fordham Law College was announced and was met by concerted cheers.

The joyous incidents of the affair will never be forgotten by those who were present.

Our own jazz band provided the music for the leg twists. Why, their jazzing so enticed that even the timid "male with male" could not resist the temptation to get out on the boards for a wiggle.

On January 29th our team will meet the five of the N. Y. U. Day School of Commerce. Do not forget that the Cooper jazz artists will once more appear as the unbeatable syncopaters.

Let us show our visitors that we are a live bunch. And show the men on the team that they are not merely playing for their own satisfaction. Come along with your song and cheer.

THE MATHEMATICS CLUB

At the beginning of the present school year, a group of students of the Day School formed the Mathematics Club. The purpose of the organization is to foster the true spirit of mathematical study. This is accomplished by having reports presented on interesting subjects of mathematics, which are not ordinarily met in collegiate study. A student or member of the faculty speaks on the subject assigned, after which a general discussion follows:

The program to date has been as follows:

SUBJECT

1. Transfinite Numbers, given by Prof. Reddick.
2. The Evaluation of Pi, given by Overton, '23.
3. Mathematical Fallacies, given by Gerdin, '24.
4. Magic Squares, given by Serper, '24.
5. Trisection of the Angle, given by Riess, '23.

Future programs will include talks on

Non-Euclidean Geometry, by Levine, '21.

Duality in Mathematics, by Samson, '24.

The concept of the Fourth Dimension, by Mr. Tanzola.

A student does not have to be a mathematical "shark" to become a member of the club. All students of mathematics will be benefitted by attending the bi-weekly meetings. No subject will be presented which is not really elementary for all concerned. Here is an opportunity for all Cooper Union students to become interested in an extra-curriculum activity. The club will help you and you will help advertise Cooper Union to outsiders, by making the club an active one, an interesting one, and a big one.

Come along to our next meeting, on Monday, January 31, 1921, at 4:30, in Room 23, when will be presented an interesting program on "Problems." Solutions will be given of interesting simple problems from elementary mathematics. Come to this meeting and you will come again.

Program of this meeting:

1. Election of officers.
2. "Problems."
3. Discussion.

VICTORY FOR COOPER UNION (NIGHT)

Cooper Night Five Too Much for Fordham Law!

It is a good omen that the first issue of the "Pioneer" can go on record as reporting a victory for our basket ball team in its game last Saturday evening.

At the 54th St. Gymnasium, before a crowd of about 200, our team played a wonderful game, and when the final whistle blew and the turmoil of noise had stilled for a moment, our team found itself on the long end of the 22-14 score.

From the time that the team took the floor amidst the rattling short cheers for the individual players until the end of the first half, the game was a sensation. Both teams fought hard and the end of the first half found them deadlocked at 10 points each.

In the second half our boys "found themselves" and literally played rings around their opponents. Our team gave the impression that it had been feeling out the strength of the Fordhamites; for during the second half, the Lawyers could score only 4 points and those on free throws from foul. Our defence did not allow the Fordham collegians a single field goal. For themselves, the Cooper Night Quintet scored four field goals and four points from fouls in this half.

The remarkable feature of the game was the passing of our boys. Getting the jump at center every time, our "five" worked offensive signals all through this half and amazed their opponents and the spectators by their speed and judgment. However, our boys did not forget their system of defence, as is apparent from the fact that Fordham scored but 4 points.

When the second half had progressed about ten minutes, our boys so far outclassed their opponents that the coach rushed in an entire new line up, substituting for every one of our regulars, and giving them a well-earned rest. Even our subs seemed to have the number of the Fordham collegians.

The stars of the game were Capt. Rosso, Ludwig and Spiro.

(Continued on page 4)

THE COOPER PIONEER

COOPER UNION, 2nd AVE. AND 7th ST., NEW YORK

Published Weekly by the Students of
THE COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART

Term Subscription, \$2.00

Single Copy, 10 cents

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EDITORIAL

THE REASON WHY

The prime motive in issuing this paper is to produce a means whereby the students, the faculty and the alumni of the Cooper Union, can discuss those matters which would promote the general welfare of the institution and its members. This publication will strive to elevate the school status, to promote school spirit, to inspire our athletic teams, to create everlasting friendship and will strive to instill co-operative tendencies within those who tend to isolate themselves from the activities of the Union, and further, through these columns, we hope to expose those individuals or organizations (if there be any), which for selfish or mere power-loving motives, hinder the progress of projects which would benefit the school.

We have long understood the necessity for such a paper. Now, we come to realize its importance. With its rays of truth, it will dispell the fog of misunderstanding. Its words will be a happiness to those who strive for the good and welfare of the school, but will smite, as with fire and sword, the foes of its progress.

Kind readers, with your fullest enthusiasm, give your energies and lend your talents, to make this paper the pride of your Alma Mater and of yourselves. In a simple and convincing manner, write your articles and discussions which you consider as factors towards making a Cooper Union, of co-operative action.

CO-OPERATION

Co-operation. How often have we seen or heard that word and how seldom have we applied its meaning in our daily lives. On every side are examples of its benefits but none are so blind as those who will not see. Let us open our eyes and look around. In government, compare the United States with any portion of western Europe of similar territory. In business, compare the achievements of the great corporations with those of a single proprietary business; or compare the advances of members of co-operative societies or stores with those who buy as they go. In science, compare the results of European countries, particularly Germany, where the scientific men keep each other informed of their individual progress, with our own country where the scientific men hinder the general advance of knowledge through distrust of one another, and lack of co-operation.

Can a modern skyscraper be erected if the mason, iron-worker and plumber refuse to work together? Can a ship cross the ocean if the engine-room force refuses to work with the captain and officers on the bridge? Can an athletic team win a game when each member of the team works independently of the others?

In this issue we have dealt with co-operation in a broad sense. In future issues, as occasion may require it, we shall deal with particular cases in the school.

SPORTS

CHESS!

At the last meeting of the Night A. O. a big surprise was handed in in the form of the schedule of the Chess Team. Gosh! It almost knocked everyone off his feet. Our noble "Chess-Nuts" had been working on the q. t. and just see what they have done. Commencing with February 5th and every Saturday thereafter, our Chess Team meets the following opponents; without doubt the biggest in the country:

Ocean Hill C. C. at Brooklyn; Central Y. M. C. A., Marshall C. C., Brooklyn C. C., College of City of New York, I. L. Rice Progressive Club, Staten Island C. C., New York University, Columbia University, Newark Chess Club, Swedish C. C. *Some schedule!*

The Chess Club meets every Saturday afternoon in the Alumni Room of the Old Building. Membership is open to all students and graduates of Cooper Union. Keep your eyes open and turn them slightly toward our chess club.

TRACK!

A track team is being organized under the leadership of Martin, one of our crack runners. He is urging more men to report and promises them plenty of work, for our membership in the A. A. U. will entitle us to enter the biggest college and club meets held hereabouts.

BASEBALL!

Baseball rumblings are being heard and before long will burst out into full sound. National sport lovers report to Manager Breslow in Room 23, Monday evenings, at A. O. meetings.

BASKETBALL!

Heartened by their last victory, the Night Five is preparing to thrash the Upsala College Five at Kenilworth, N. Y., Saturday evening, January 29th. All men who wish to make the trip with the team should read the A. O. Bulletin Board for details. The time and money expense is very small and we should make a good showing of rooters.

The weekly workouts under the supervision of the new coach are proving the salvation of our crack team. They are improving with each one. Especially impressive is the system of defence being perfected. More about basketball in the following issues.

TRACK TEAM

The Cooper Union Day Dept. Track Team has come into existence this year mainly to promote more athletic interest among the students.

Credit is due to A. Duna and J. Bossert. They originally conceived the idea of a track team and took active measures towards organizing it.

At a meeting, which was held early in the school year, A. Duna, '23, was unanimously elected captain. He assumed the duties of his office immediately and has been training the men on the team ever since.

Places on the track team are still open to every student of the Day School. It is only necessary that you show what you can do.

To show what you can do means to come out and learn for yourself. It is not what you do at the first shot that establishes a criterion.

Come out and co-operate with us to bring Cooper Union to an athletic standing on a par with every other college!

J. CHIVONNA, '23,
Manager.

INTER-CLASS GAMES TO
BEGIN FEBRUARY 18th

The Athletic Association has completed its plans for the inter-class tournament that is an annual event at the School. This year more than any previous year bids a hard and close fight for the class that can rightfully call itself the Champion, and claim its orange numerals.

Last year the present Seniors won their numerals by handily defeating the Class of 1920 in the deciding game. It will be exceedingly interesting to follow closely this year's contests because of the basketballers who have threatened to dethrone the Champs.

Arrangements have been made for practice on Friday evenings from 5:30 to 7:00 at the Oliver St. Gymnasium. However, the tournament will take place at the large Chelsea gymnasium on 28th Street near Ninth Avenue.

Who will proudly claim the numerals?

Next Home Game
JANUARY 29
with
N. Y. U. COMMERCIAL
Come Out and Cheer

COOPER DAY TO PLAY N. Y. U. COMMERCIAL

Saturday evening the Day School basketball team will appear, probably for the last time this season, in a game at the Savage Gymnasium. Our opponents will be no other than the fast aggregation representing the day division of the N. Y. U. School of Commerce and Accounts.

Those of you who were at the Manhattan game may expect to be enthused again as then, and those who were not but are surely coming to see our boys in action in our last home game may expect to share in this enthusiasm. Furthermore, we need every one of you and your friends to help the boys through with a cheer and a song for victory!

Surely you are going to be there! You dare not miss the pleasure of dancing with your own best girl to the jazzy strains of *our own jazz band!* Or miss seeing the one that inspires "Kid" Bossert to "do his dirtiest." And all of this for the price of your school spirit and the good fellowship that it breeds.

As a special request, we beg of you to be at Savage's as near 8 P. M. as you can that we may have more time for dancing. Thank you.

Parodizing the words of that famous leader: "Cooper expects every man to bring his Beauty."

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RESTAURANT
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NEW YORK

The Electrical Engineering Class of 1921

SENDS ITS
BEST WISHES
FOR THE
SUCCESS
OF THE
COOPER PIONEER

COOPER UNION STUDENTS LEAGUE HAS SOCIAL MEETING

In accordance with the "Unwritten Law," the C. U. S. L. held a social on Friday, January 14, in connection with the inauguration of officers.

Meeting was opened by President J. Frank Newgarten. Program contained a sketch entitled, "The Little Red Mare."

Farmer C. Bussov
City Chap J. Cohen
Jockey I. Richmond

Several very well rendered musical numbers were presented.

A. I. Madison Violinist
B. Hildebrand Pianist
I. Friedman Pianist
A monologue was given by H. Patten.

The crowning features of the evening included the summary address by the retiring President, J. Frank Newgarten, in which the outstanding events of the administration were recounted, and the necessity to "carry on" the policy was impressed. In closing, the newly elected President, Carl Bussov, took great pains in effectively outlining the policy of the new administration, laying great stress on co-operation of the day and night schools.

The officers:
President C. Bussov, Chem, '22
Vice-Pres. H. Spiro, Chem, '22
Treasurer J. Bivona, Chem, '22
Rec. Sec. J. Finnin, E. E., '22
Finan. Sec. I. J. White, C. E., '22
Corr. Sec. R. Tupo, C. E., '22

ELABORATE PROGRAM BEING PREPARED FOR FOUNDER'S DAY CELEBRATION

February 12th marks the birth-day of the founder of our institution.

As in past years, the celebration this year will be held in the large Auditorium of Cooper Union.

An extensive program is being prepared and will be announced in a later issue.

All students, alumni and their friends are welcome to attend.

COOPER DAY LOSES SPIRITED GAME TO SETON HALL

Saturday evening, January 15, the Cooper Union Quintet travelled to South Orange, where it lost a hard-fought game to the Seton Hall Five by the score of 48-25. The game was interesting and spirited throughout and the Cooper team won the plaudits of the Seton Hall followers by its fighting spirit and excellent passwork. But our boys lost out on the shooting. It was a common sight to see three Cooper men successively shoot the ball right under the basket, but the ball wouldn't behave.

During the first ten minutes, our team was ahead, but a volley of long shots by the Seton Hall tossers put them into the lead which they kept for the rest of the game. The half ended 26-16.

The second half found the Cooperites fast asleep. It may have been the late hour or the Jersey air, but our boys just couldn't get going. However, "Wild Joe" Meier and Hal Rhodes kept the Jerseyites on their toes by their slam-bang offense and defense. Our line up and point getters were:

	F. G.	Foul
Griffiths, R. F.	3	4
Bossert, L. F.	1	3
Rhodes, C.	2	0
Meier, L. G. (Capt.) ..	3	0
Diamond, R. G.	0	0
	9	7

Total—25 points.
Cooper Rooters = 3 + Seton Hall Fans.

THE ENGINEER

The engineer devotes himself to work which demands careful experiment and exact observation. His duties are numerous. Among the most important, are the development into practical realities those things which are but embryo possibilities. He directs the use of materials, in design and mechanical combination, so as to function in a manner such that a specific service is rendered. Also, he superintends the construction of his designs, where he details his men and equipment, to perform to the best advantage.

The engineer is one who by scientific design, utilizes the forces and materials of nature, and, because of his training and capabilities, is intrusted with the direction of man and money power, for use in a manner such as will tend toward the betterment of mankind.

The fruit of his labors is the progress of the universe.

The fundamental liberty conferred upon man, is the right to express his thoughts as they actually are. To alter his opinion so as to conform with that of another, the arguments, given by the latter, must convince the former.

FAMILIAR SAYINGS A COLUMN WITH THE PEDAGOGUES

"I give you fellers fair warning, Govern yourselves accordingly." (Repeat ad libitum.)

"See me in my boudour."

"Listen to me. I know what is in the book; I wrote it."

"Learn to think rationally."

"Don't use a formula. Use common sense." (Voice from the rear—"He hasn't any.")

"There's an interesting problem."

The following letter was found in the contribution box. A searching party has been organized to find the author. Certain clues point in the direction of a freshman. We assure our readers that we'll have very little mercy for him.—Ed.

Dear Sirs,

Knowing that you are always interested in and open for any investment in a good live business proposition, and hoping that you will treat this letter strictly confidentially, I take the liberty of presenting to you what seems to me to be an excellent business proposition, and in which no doubt you will take a live interest. If this offer appeals to you, kindly let me hear from you promptly, advising me as to the amount of stock you wish to subscribe for towards the forming of the company for the exploitation of this idea.

I propose to organize a company to operate a large cat ranch near where land can be purchased cheaply.

To start with we will collect about 100,000 cats. Each cat will average twelve kittens a year. The skins will sell for from 10 cents for the white ones to 75 cents for the pure black. We will have about twelve million skins to sell, at an average of 30 cents apiece, making our revenue about \$10,000 a day gross.

A man can skin fifty cats a day. He will charge two dollars a day for his labor. It will take about 100 men to operate the ranch, therefore the profits will be about \$9,800 a day. We will feed the cats on rats and will start a rat ranch adjoining the cat ranch. The rats will multiply about four times as fast as the cats, and if we start with a hundred thousand rats, we will have four rats a day for each cat, which is plenty. We will feed the cats on rats, and in turn feed the rats on the stripped carcasses of the cats, thus giving each rat one-fourth of a cat.

It will be seen by these figures that the business will be a self-acting and automatic one. The cats will eat the rats and the rats will eat the cats, and we'll get the skins.

Awaiting your prompt reply, I beg to remain

Yours very truly,
The Self-Feeding Rat & Cat Co.

VICTORY FOR COOPER UNION (NIGHT)

(Continued from page 1)

Rosso and Ludwig by their great team work showed what "feeding" other members of the team really means. Rosso shot all but one of the free throws from foul. Ludwig put up the scrappiest game he has yet played. His jumping merits more than passing notice. Spiro, immediately upon taking the floor in the second half, shot two field goals, sending the spectators into ecstasies.

A word or two about the new big boy, George Quigley. He is by far the biggest man on the squad and has designs on the center position. Relieving Tynan, he seemed to fall in easily with the team-work of our boys, and ended one long brilliant pass himself by shooting a field goal. Watch this big boy.

For Fordham, Hoffman and Martini played best.

We trust that the brand of playing our "five" displayed will be continued for that is the sort of playing that wins, and it is not improbable that they will make a clean sweep of the rest of the schedule.

In a preliminary game our Juniors or the "kids" or "the kindergarten," whatever you may call them, engaged in a long tussle with Brooklyn Evening High School, and at the end of the time found themselves in front by the score of 25-24. Whew! Some game! The deciding goal was shot by "Kewpie" Katcher in the last minute of play.

Box Score! Feature Game!
Cooper Union Night Fordham Law
Rosso F. Hoffman
Arcome F. Benjamin
Ludwig C. Martini
Tynan G. Ornstein
Arillo G. Keogh

Score at end of first half, 10-10.

Field Goals: Cooper Union: Arcome, Ludwig, Arillo, Quigley, Spiro (2). Fordham Law: Benjamin, Martini (2). From foul: Rosso (9), Ludwig (1), Hoffman 5, Benjamin 3. Substitutions: For Cooper: Ehrlich, Spiro, Quigley, Anderson, Mathes, Fidelgoetz.

Final score, 22-14.

Time of halves, 20 minutes.

Referee: A. Meininger, St. Francis College.

The first year electrical students had a class meeting last Thursday evening, after close of school. Chairman Scavetta reports that the freshmen E. E. men voted a hundred per cent subscription for the Cooper Pioneer.

We hope before long that every organized class will report such school spirit.

The freshman E. E. are full of sparks, so watch their support toward all activities.

JUNIORS AND SOPHS TIE IN BASKETBALL

The first interclass basketball game of the year, participated in by the teams representing the Junior and Sophomore classes of the Day Dept., resulted in a 21-21 tie. Both teams fought hard for victory, but were handicapped by lack of practice and team-work.

Bossert and Diamond starred for the Juniors, the former caging four field goals and five fouls. Reiss, Siegal and Matlin were the mainstay of the Sophomore team.

THE COOPER ORCHESTRA

The orchestra had its inception in September, 1919. Despite its many handicaps, it gave several presentations and completed the year with much credit to itself when it performed at the Annual School Exhibit and later at the Commencement.

Our strength at present is fifteen, but we need and want fifty. This is not a large number for so big a school as Cooper Union.

Those men who join now will play on Founder's Day, the evening of February 12th. Candidates will please report on Tuesday nights in the Students and Graduates Room at 9:30 P. M.

NEW COOPER NIGHT YELL

Cooper, garax, garax, garax,
Cooper, garax, garax,
Art, Mech, Sci, Elec,
That's the cry of Cooper Tech,
Cooper, Cooper, Cooper-Tech.

COMPLIMENTS OF THE IRVING LUNCH

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THE STUDENTS' LEAGUE BOYS FINISH THEIR ARGUMENTS HERE AFTER THEIR MEETINGS.

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NEW YORK

CLASS ORGANIZATIONS

It is with great pleasure that we view the increase in class organizations. The time has passed when men would study side by side for a number of years, without knowing one another, or passing in the halls would seldom give a nod of recognition.

Now all is changed. Every class of the Chemistry Course of the Night Dept. and most of the General Science and Electrical Engineering classes have organizations. Even in the Art Courses have the stirrings of class spirit been felt. The Day Dept. is fully organized and much is being done to provide diversion for the students.

We have all realized the good which can be done through these organizations, we appreciate them, and we strive for them. The few classes which have not yet organized are urged to do so at once.

On Tuesday, Jan. 11, Prof. G. F. Bateman "kidnapped" the third year class of the Day Dept., and in a short address pointed out the advantages to be gained in meeting with one's classmates to discuss matters of common interest and to enjoy a bit of recreation. He urged that the class meetings, which for some reason or other had been discontinued, be resumed.

Inspired by what he said the class held a meeting Friday, the 21st, at which the following subjects were discussed:

1. The advantages of a class organization.
 2. The advantages of a higher education.
 3. Our debt to society.
- Regular bi-monthly meetings are planned and Prof. Bateman has volunteered to work out a program and provide speakers. This action on the part of the Professor but further illustrates the interest which the faculty has in the welfare of the students and their activities. It is for the student body to show its appreciation and worthiness of this consideration.

SUCCESS
TO THE
COOPER PIONEER
CHEM. 25

"Perpetual Success"
COMPLIMENTS
of the
Electrical Engineering
Class of 1925

GENERAL SCIENCE CLASS OF 1924 (NIGHT)

Thanks to the efforts of C. Busow and J. Finnan, the General Science Class of 1924 has launched its organization. It has already adopted a constitution and at its next meeting will elect permanent officers.

The following are some of the reasons for this combine, as shown in the preamble of the constitution:

To promote and foster friendship among the members.

To attend lectures corollary to class work.

To have tours of inspection to engineering works.

And to have social gatherings at least once a term.

A better collection of reasons could seldom be assembled. Watch them, they have the "makin's."

CHEMISTRY CLASS OF 1925 (NIGHT)

Such boasts of good school spirit and good fellowship are very hard to rival. The organization boasts of 100% C. U. N. A. O., almost perfect attendance to all basket ball games, and above all, a marked presence of good-fellowship, as shown by the success of all their enterprises. It is rumored that the class is forming a basket ball team of its own and that soon challenges will be flying around, like diplomatic messages before the start of the late war.

THE CHESS CLUB

At a meeting of the Cooper Union Chess Club on Thursday night, January 20, an election was held, with the result that the following were elected officers:

Mr. Schappi, President.
Mr. Schwartz, Vice-President.
Mr. Gruenstein, Rec. Secretary.
Mr. Marchese, Cor. Secretary.
Mr. Salomon, Treasurer.

ARE YOU HUNGRY?

THEN HOP ACROSS
TO THE

SAGAMORE
Buffet Lunch

3rd AVE. & ST. MARKS PL.,

NEW YORK

The COOPER PIONEER

ART SCIENCE

Vol. I.

FRIDAY, FEBRUARY 4, 1921

No. 2

COOPER DAY LOSES TO N. Y. U. OF COMMERCE

Last Saturday, January 29th, Cooper Day and N. Y. U. of Commerce met in a home game at the Savage Gym and our opponents took home the bacon. The final score was 25-17, with Cooper on the lean side of it.

The game was featured by fast playing from start to finish. Both teams displayed some good, quick passwork, with Cooper showing the best of it, but the Commerce team excelled in shooting from the floor.

The game was scheduled for 8 P. M. sharp, but at that hour our manager, instead of announcing the contenders to the sparsely populated balcony, was walking back and forth on the floor below the gym looking as tho he had lost his last fifty cents. At ten past 8 he decided to start the game without his two pets, Meier and Rhodes. But they must have known his thoughts, as they arrived at the psychological moment.

Later it was learned that they had been juggling some "mean" integrals with "Benny" Levine. The only consolation we then have is to blame our defeat on "Benny"; or probably Stanka's jinx-pink shirt had something to do with it?

The game started with a rush, the "financiers" scoring 3 points in as many minutes. On an outside ball Rhodes intercepted a pass by a Commerce man and lost no time in caging it. The accountants had their own way for a while, scoring 2 field goals, and 1 free throw. Griffiths then caged one for Cooper. The score at the end of the first half was 15 to 6, Commerce having the 15.

In the second half "Joe" Meier came around with some fantastic playing and showed up to old form. Guess he wanted to put to practice those integrals "Benny" pestered him with so that he could "sum up" a few for Cooper. It was in this half that Meier showed the spectators that a good guard may have shooting ability also by caging a few from difficult positions.

The teams lined up as follows:
N. Y. U. of
Cooper Day Position Commerce
Bossert.....R. F.....Coffey
Griffiths.....L. F.....Devine
Rhodes.....C.....Heffernon
Meier.....R. G.....Levindusky

ALUMNI NEWS

A joint meeting of the executive and nominating committee of the Cooper Union General Science Alumni Association was held in the Alumni Room on Saturday evening, Jan. 22nd.

While the business of the meeting has not been disclosed, it is rumored that some very important matters were settled, among them being the nomination of the slate for 1921 officers.

We are anxiously looking forward to the next meeting of the C. U. G. S. A. A., which will be held on February 26th, to hear of the business transacted. Among those present were:

Wm. P. Hennessy, G. S. '94.
D. R. Lovejoy, G. S. '95.
J. C. Reidel, G. S. '98.
R. C. Coffin, G. S. '10.
R. E. Kief, G. S. '10.
J. H. Fisher, G. S. '17.
J. L. Steinhauser, G. S. '19.

ANNUAL DANCE OF THE ARCHITECTS, SATURDAY, MARCH NINETEENTH

The Architectural Alumni Association of Cooper Union will hold its annual dance at the Academy, 109-115 W. 79th St., New York, on Saturday evening, March 19th, 1921.

Tickets may be obtained from the chairman, Room 29.

Diamond.....L. G.....Swan
Field goals: Coffey four, Devine three, Levindusky, Pred; Rhodes two, Meier two, Griffiths.

Substitutions—Pred for Heffernan.

Time of Halves—20 minutes.
Referee—Lew Cooper—P. S. A. L.

After the game our jazz band cheered up the rooters. Their playing even taunted "Benny" who furnished the entertainment by giving a "native" fox trot.

The A. A. deplors the poor attendance of the student body. What ails that "body"? What are its wants? If the A. A. is not handling things properly for you, let's hear a word of reprobation. Tell us what we should do to arouse your interest. We are human, you know, and may overlook just those things that interest you most. Your criticism will be appreciated.

DAY SCHOOL TO HAVE ANNUAL SMOKER, FEB. 26

What promises to be the greatest smoker the Day School has ever had will be held on Saturday evening, Feb. 26, 1921, in the Social Rooms of the Engineering Societies Building, 29 West 39th Street.

The Day Annual Smoker is one of the very few occasions when the entire student body and the alumni of the Day School can meet and get to know each other. Come out and watch that royal flower of friendship and good fellowship blossom. Get to know your fellow classmates and the alumni. Remember that friendship is one of the great things in life worth living for—the one thing you value, not only when it is not yours, but also after you gain it.

Arrangements have been made to insure a most pleasant evening for all. Everything that makes for pleasure, mirth, and fun will be there:

1. A joke contest.
2. — — — — —. A thrill.
3. An oriental magician.
4. Smokes.
5. Eats.
6. Drinks. (The Prohibition Amendment has not yet been ratified by the C. U. S. L.)
7. Something else. (? ? ?).

The joke contest will be judged by a committee consisting of one man from each year and several alumni. Each year is asked to elect a man to represent to guard its interests. Those elected will please communicate with Sam Wilnin, chairman of the Smoker Committee.

GET YOUR TICKETS EARLY. SEE YOUR C. U. S. L. DELEGATE.

COOPER COURIER ANNOUNCES SHORT STORY CONTEST

The Cooper Courier, the year book of Cooper Union, announces a short story contest. The subject of the story and its length is left entirely to the judgment of the contestant.

The author of the best story will be awarded a silver medal. The second prize is a bronze medal.

All manuscripts are to be dropped into the C. U. S. L. Box. The contest closes on February 7, 1921.

COOPER UNION (NIGHT) WINS ANOTHER!

UPSALA COLLEGE SWAMPED

Tune: 47-27

Upsala College at Kenilworth, N. J., is a co-educational institution; which means that the boys play basketball and baseball, and the girls study nursing. Last Saturday evening, January 29th, a hurricane in the form of our Night Varsity Basketball Team, struck Upsala College. The results are sad to relate. When the bad boys from Cooper Union (night) had finally blown away, the Upsala collegians realized why nursing was a necessary study with their co-eds. Singing: "Give them the axe, the axe, the axe . . ." the Upsalans filled the hall with their cheerful song; but alas, our Night Quintet does not appreciate hospitality, and turned "the axe" upon their hosts.

It was a slaughter! The final score was 47-27. Our boys simply toyed with their opponents, and the score would have been much more one-sided if our subs had not replaced the regulars during the second half. The coach advised our boys to go easy in the first half, and they did. Under their new style of play, they "felt out" the strength of their opponents during the first half, and that period ended with our boys in the lead by the score of 17-10. Between halves, coach Lamm told the boys that when the second half started they should go in and roll up the score. Did they! They sure did!

At the beginning of the second half our boys inside of 5 minutes scored 17 points, while the Upsalans only scored 2, and those two on free throws from foul. That, in brief, tells the story. The Kenilworth collegians thought we speeded things in the first half, but, at the beginning of the second, our boys showed them what real speed is.

Again, the passing of our "Five" was superb. Speed and judgment turned their signal passwork into a great display of team work. And the shooting . . . we'd better start a new paragraph for that.

The stars of this game were Capt. Rosso, Ludwig, Arcome, Arillo and Ehrlich.

Rosso is playing in wonderful form now and showed it in this game. He alone accounted for 21

(Continued on page 4)

THE COOPER PIONEER

COOPER UNION, COOPER SQUARE, NEW YORK, N. Y.

Published Weekly by the Students of
THE COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART

Term Subscription, \$2.00

Single Copy, 10 cents



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Vol. I

Friday, Feb. 4, 1921

No. 2

EDITORIAL

WHAT ARE YOU DOING FOR THE COOPER UNION?

Don't forget that the Cooper Union gives you an extensive and useful education, equips you with the solid foundation of truth and fits you to serve for the good of mankind. Don't forget that the Cooper Union makes of you a producer of needs, a creator of conveniences, and prepares you for the battles of life. Don't forget that the Cooper Union raises your intellectual, professional and social status, makes of you a master, a thinker, an originator. Don't forget that the Cooper Union teaches you the value of time, the success of perseverance, the pleasure of working, the influence of example, the obligation of duty, the wisdom of economy, the joy of originating and the virtue of patience. Don't forget that the Cooper Union is your benefactor, for it makes of you a man of men.

Cooper Union does all these things for you. What are you doing for the Cooper Union? Are you actively engaged in any of its organizations? Are you giving your full support to its athletic teams? Are you participating in its social functions? Are you a factor in any of its activities, or are you letting "George do it?"

FOUNDERS' DAY

On February 12th, the natal day of two of America's greatest men, Abraham Lincoln and Peter Cooper, we shall meet in the great hall of the school to do them reverence. On this occasion every student should make it his duty to be present. The exercises commence at eight o'clock in the evening, and there can be no reason for absence, except physical disability.

Peter Cooper was the man who made it possible for us to gain a higher education while supporting those dependent upon us. In his day this was impossible and he realized the need of it and made the creation of this advantage his life work. He gave practically his entire fortune to build and endow the school, and had to keep in business in his old age to take care of himself. Later, he gave another fortune to start the present Cooper Union Library.

ANOTHER REASON WHY

In an editorial last week some reasons were given why the "Pioneer" came into existence and why the student body should support it. One thing not mentioned was the destination of any profits to be arrived from the publication of the "Pioneer." These profits, which will not be negligible if the paper is properly supported, will go to the Club House and Gymnasium Fund. Some regard the erection of the gym as a chimera of the distant future, but we prophesy that men now attending Cooper will play games in their own gym.

SPORTS

DAY TRACK TEAM SECURES ARMORY

Eureka! At last! We have a real armory to train in! It is the 13th regiment armory in Brooklyn. Why the elation? Man, it's the best armory in the state, and it's ours twice a week.

Some time ago our "pioneer" track team competed against the best at the Western Union A. A. Games. What's more, we made a fair showing without much training, at that.

Saturday, Feb. 12th, the team will enter again in a competition. But our team will have been training for two weeks by that date. What conclusion would you draw? Then watch for a future issue of the "Pioneer."

On the bulletin board you will find a notice which is, in short, a want-ad for track-team candidates. Have you answered the ad? If not, hasten to do so.

INTER-CLASS BASKETBALL SCHEDULE

The schedule for the inter-class basketball tournament of the Day School is as follows:

February 26th.

Freshmen vs. Juniors.

Sophomores vs. Seniors.

On March 12th, the winners of the above games will play the final contest. The losers will also play one another.

The tournament, as previously announced, will take place at the 28th Street gymnasium on the above days, which fall on Saturdays, at 10 A. M. We now have the use of this gym on Saturday mornings from 10 to 12 o'clock for the remainder of the season. If any of the classes wish to practice at this hour, consult manager Koren.

The manager also requests that each class hand him a line-up of the team before February 18th.

FOOTBALL

Say, fellows, don't be satisfied with the knowledge that Cooper has a basketball team and is represented sufficiently in athletic circles. Cooper needs a football team to awake the dead spirit of the institute. One was called last spring, but the candidates lost spirit and never showed up for practice. But it's going to be a different matter this year, and now is the time to talk, not next fall. ORGANIZE FOR SPRING PRACTICE. WAKE UP. DON'T SAY, WHHAT'S THE USE.

BASKET BALL

It seems that the recent improvement of our Night Varsity team has excited a lot of interest in the coach, and we will take this opportunity to answer a few of the many questions that have been asked about him.

Mr. Lamm is, himself, a great basketball player. Those who are interested in, and read current results of collegiate basketball games will find Mr. Lamm mentioned as having starred in many recent games. Our new coach, however, is very modest in his demeanor. He is a fine fellow, personally, and has gained the liking of the squad, which means a good deal.

In practice, however, he is merciless. He works the team hard. His policy is to keep the team going at full speed, and alternating their opponents about every twenty minutes. He has developed a wonderful system of defence, which has proven the winning factor in the last few games played.

The results of the Fordham Law and Upsala games have clearly shown what coaching means to a team. The Cooper night five is now looking forward to making a clean sweep of the rest of our schedule.

CHESS

Well, well, well. At last we will start. Our Chess-nuts and pawn-pushers are going to play against the Ocean Hill Chess Club on Saturday evening, Feb. 5, 1921. This match will be an official one, being part of the schedule of the Metropolitan Chess League's tournament. The games will be played at the Ocean Hill Clubroom. This means a trip for our boys to Brooklyn. Looks like we're taking the offensive. Will we try our best to bring home the bacon? YOU BET.

BASEBALL

We're starting fireworks. All battery men trying out for the baseball team must report this Sunday morning, Feb. 6th, at 9 A. M., at 54th Street Gym, 54th Street and 1st Ave. Report to Mr. Breslow.

NEXT GAME

COOPER UNION NIGHT
vs.

FORDHAM LAW COLLEGE.

Also:

FORDHAM UNIVERSITY vs.
VILLANOVA.Sat., Feb. 5th, 1921, at 69th
Regiment Armory,
26th St. and Lexington Ave.

TICKETS: 75 Cents.

POLY-TECH. AND C. C. N. Y. CO-OPERATED WITH COOPER COMMITTEE TO START THE COOPER PIONEER

When the question of starting a weekly newspaper first came up in the Student's League, there were many opinions offered to show the impossibility of publishing such a paper successfully.

Some claimed it to be a financial impossibility, others spoke of the lack of time. A committee, however, was appointed to investigate the possibility of starting a weekly newspaper in Cooper.

When the committee submitted its report the next week it outlined the purpose of such a paper in Cooper, gave detailed data as regards costs and possible profits in publishing it, and outlined a board of management and staff representatives of, and satisfactory to, both the day and night departments.

The report was accepted unanimously by the Student's League and an appropriation of \$100.00 was immediately voted to get the paper started.

The Student's League takes this medium to express its appreciation to Messrs. B. Branfman and A. Weber of the Polytechnic "Reporter" and Morris Weintraub of the City College "Campus," for the assistance they so willingly gave to our committee.

The editors regret that they must reject some articles because of lack of space. However, don't let that discourage you. Perhaps your writings will be given space in some future issue. At any rate keep on trying, for only in that way will we know that the "Pioneer" is getting the best there is in Cooper.

ARE YOU HUNGRY?

THEN HOP ACROSS
TO THE

SAGAMORE Buffet Lunch

3rd AVE. & ST. MARKS PL.,
NEW YORK

THE DUTY OF THE ENGINEER AS A CITIZEN

By H. W. MERRITT

We, as student engineers, are face to face with the serious problem of conservation of our nation's resources. It is at once obvious to all, that the endurance of our prosperity depends upon our ability to preserve the natural resources which America is so fortunate in possessing.

It is not alone our duty to those of the present generation, but to the welfare of our posterity, that we owe allegiance to the cause of conservation.

With the growth of larger metropolitan districts, such as Manhattan, the necessity for rapid, economical transportation facilities becomes apparent, and it is the engineers' problem to furnish the means whereby this need may be fulfilled.

Added to the transportation problem is the necessity of increasing the efficiency of the various types of power plants used, especially power plants of automotive equipment, so that their fuel consumption is a minimum.

Statistics and other data assembled by the commission in charge of the building of the new vehicle tunnel under the North River, indicate that the average automobile owner is using approximately 33% more gasoline per mile than is necessary with the present equipment, while laboratory tests indicate considerable room for improvement of the economy as regards fuel consumption of the present day internal combustion engine design.

In the commercial truck field, with the increased adaptability of motor trucks for short and long haul express work, the economy of operation is of still greater importance. This is especially true in view of the reported shortage in the supply of petroleum required for fuel.

There are several ways in which this economy of operation may be obtained.

1. The mechanical efficiency of the several sub-units making up the main unit may be increased by suitable designs.

2. The thermal efficiency of the power plant may be increased considerably by a proper investigation of the thermodynamics and mechanical design involved, together with the determination of more suitable materials for use in construction of motors.

3. The use of governing devices to give maximum economy of gasoline consumption without sacrificing any power and to eliminate the personal equation of the driver, and the adapting of various carbureting and fuel preparing devices to give maximum power output, is recommended.

4. By balancing of truck units so that the maximum commercial

(Continued on page 4)

KOOPER KOMICS

PERHAPS

When the subway guards speak English

When the sun is shining bright,
And the oyster blossoms blossom
In the middle of the night.

When the watermelons water
'Neath the blue December sky,
And the onions in the garden
Make the eyes of 'taters cry.

When the Fords cease to rattle,
When the price of cats come down,
When the moon shines in the subway.

When I know that blue is brown,
When bananas grow in Iceland,
When Prohibition is no more,
When I get the things I wanted
And a little bit more.

When I own the Woolworth Building
And Niagara Falls are mine,
Then I may forgive the teacher
Who once gave me sixty-nine.

A. O. PECULIARITIES!

Recently, a little red headed chap, after studying the Night Varsity schedule for some time, and noting that January 15th was marked: "Game pending," sought out the manager and said, "Cay! Where do we play Pending, at home?"

Page the medicine kit!

Judging from all the Lunch Room ads, Cooper must have some appetite.

Sign on a "food shop" in Cooper Square: "Have a Cup of Coffee and Roll Downstairs."

Return Trouncing!

COOPER NIGHT

will give it to Fordham Law
AT 69TH REG'T ARMORY

This Saturday, Feb. 5th

Space donated by Chem. 25

Just a stone's throw
from Cooper is a
RESTAURANT
noted for its service
and cleanliness —
THE ST. REGIS
17 Astor Place,
NEW YORK

HEARD ABOUT THE CLASS

White: Zuckerman, will you attend our next meeting?

Zuckerman: I can't, my wife won't let me.

Paul P * * * *: Nissenbaum, how about that contract?

Nissenbaum: I'll soon tell you.

Bridgeman: Well I guess you're right, Dave.

Kaufman: Didn't I tell you.

The most popular chorus girl breakfast from a recent consensus is coffee and rolls.—Royce.

Prof. Swarze in Mechanics Class: The average pressure upon any subway tunnel section is determined by the distance from the water surface to the center line of tunnel. The minimum pressure being at the top, the maximum pressure being at the bottom.

Voice in the rear: Beg your pardon, the maximum pressure occurs on the platforms.

THE SCIENCE STUDENT

I'm a very clever gink,
I'm a scientist—and think
I am unsurpassed in my inventive powers.
I am very sure I could
Make a nutmeg out of wood
Or grow a field of artificial flowers.

I could, almost any day,
Make a "flivver" live on hay,
And commercialize the fury of the weather,
Take the sting from the "muskeeter,"
Make a fair and square gas meter,
Or make a dainty apple pie from leather.

I could make a million things
Out of nuts and bolts and springs,
But I never make a thing, and I'm contented.

I have thrown my tools away,
For, in this inventive day,
Every bloomin' thing we need has been invented.

BOXING MATCHES

Never strike a poor defenseless match! Take a "tip" from a match who knows. Even tho it is no match for you, I've often seen a match box, and they can certainly stand much sulphering!!

And don't make light of it either. Or some candle is liable to become "hot-headed" and "fire" you out! When a candle gets into a heated argument, his fury will wax greatly. Even tho most candles appear clean, white and upright, they are universally known to be wicked and narrow.

COOPER UNION NIGHT WINS ANOTHER

(Continued from page 1)

of the total 47 points scored by our boys. His foul shooting was great, and his field goals greater. "Matt" shot 4 field goals and 13 fouls. Ludwig shot 6 field goals. This boy is becoming a terror. Some of his shots were of the fancy, one-handed brand he is famous for, which set everybody cheering.

Arcome shot 4 field goals. He played his usual, quiet, but very effective game. When Arcome shoots the ball goes in.

Ehrlich played a good guard and helped by caging one goal.

To Arillo, however, goes the glory of that night. Guarding well, as he always does, he still found two opportunities to shoot the two fanciest goals of the game. To make one, he dribbled down the length of the court, and jumping high, shot the ball up the wall, directly above the basket. The ball went up about ten feet and then, plunk! right thru the basket. His second goal was shot from the extreme corner of the field (a very hard goal to shoot). He was hard pressed, and threw the ball backward, with one hand from the corner, on a line with the basket. A freak shot, but the prettiest made by our team this season.

Cooper Union Upsala College
Night (47) (27)

M. Rosso.....F.....Benson
C. Arcome.....F.....Johnson
N. Ludwig.....C.....Lindgren
L. Ehrlich.....G.....Peterson
V. Arillo.....G.....Palmgren

Field goals: Cooper Union (night): Ludwig (6), Rosso four, Arcome four, Arillo two, Ehrlich one. From foul: Rosso thirteen. Upsala: Benson four, Peterson two, Johnson one, Palmgren one. From foul: Benson eleven. Time of halves: 20 minutes. Referee: Nilson, Upsala.

Mr. C. Weaver will deliver a talk on "Physiological Action of Enzymes" to the fifth year Chemistry Class at 9.30 Feb. 9th.

THE DUTY OF THE ENGINEER

(Continued from page 3)

efficiency of the motor is obtained at the governed truck speed.

5. By consideration of radically new designs of internal combustion engines.

6. By education of drivers and mechanics to the problems involved in motor and truck operation.

7. By the determination of processes of refining fuel which will permit of the maximum finished output from the crude petroleum.

8. By the adaptation of motors to the use of heavier fuels, and the possible introduction of Diesel or semi-Diesel designs of motors to truck work.

A similar procedure is required to investigate and increase the efficiency of steam power plants; to diminish the consumption of coal or at least to make the consumption more economical; and to prevent the wasting of timber products.

New sources of supply must also be located and developed to the fullest extent, to insure a sufficient output to supply the ever-increasing demand.

It is at once obvious that the few facts mentioned above, together with a thousand others too numerous to mention in the scope of this article, bring forth the wide extent of the engineer's duty as a citizen.

(Ed. Note—This is the first of a series of articles by students in the Science Departments.)

COMPLIMENTS OF THE IRVING LUNCH

113 EAST 14th ST.
Between 4th Ave. & Irving Pl.

THE STUDENTS' LEAGUE
BOYS FINISH THEIR ARGUMENTS HERE AFTER THEIR MEETINGS.

FEBRUARY FIFTH Cooper Day vs. Manhattan College AT LA SALLE ACADEMY

Game with St. John's College at Brooklyn, for FEBRUARY 2d, is postponed to FEBRUARY 15th.

CHARLES HEITMAN LUNCH ROOM

Those Famous
SANDWICHES
21 SEVENTH AVENUE
NEW YORK

EPIDEMIC SWEEPS COOPER

Specialists Study Unprecedented
Conditions—Predict Roseate
Future

Mr. Alfred Spice, son of the late Prof. Spice, and Secretary of the Chemical Society Building and Endowment Fund, remarked at a recent meeting of the Cooper Union Student's League that never before in the history of Cooper has so much interest been evinced by the undergraduate body in Cooper and its activities. Mr. Spice became retrospective and hearkened back to the days when he was an undergraduate, some ten years ago—when the main and sole activity of Cooper was limited to meeting in Room 23 and flinging verbal brickbats to and fro and then adjourning to the Automat or The White House, now extinct, for rest and sustenance. In those days a basketball team was an unknown quantity and a weekly newspaper such as the "Pioneer" considered in the same class with Moore's Utopia.

What impressed Mr. Spice most of all was the number of active class organizations which have sprung into existence during the past year. It seems that this spirit of organization has become contagious and spread into a veritable epidemic, for only a small minority of the classes are now unorganized, and those few will be among the elite in the very near future. This is the sort of epidemic that the Board of Health will not wage a war against, in fact it should be fostered by all of us, for organization is the panacea of our ills, the Open Sesame to recognition—something all of us should strive for.

Following the excellent example set by the General Science Classes of '21, '22 and '24, the Class of '23 met Wednesday, Jan. 26, and took the initial steps towards the inception of a class organization. The meeting was conducted by the organization committee of G. S. 22, consisting of I. J. White, A. Weiss and R. Supo. We may add in pa-

MORE

Fordham Law College, not being satisfied with the one trouncing we gave them, Jan. 22d, has asked us to play them a return game at the 69th Regiment Armory this Saturday evening, Feb. 5th. This game will be played in conjunction with a game between Fordham University and Villanova College of Pennsylvania. Dancing will follow the two games, and all in all the affair will be the most notable held in New York that evening. We urge all the students and friends of our night five to turn out and give the team support. We cannot foresee the result of the Fordham University-Villanova game; however, you may check up the third straight win for Cooper Union (night), Fordham Law is in for another trimming. Let us all get in on the fun.

The support that our boys have been receiving lately is really remarkable. About twenty-five students took the time and trouble to travel out with the team to Kenilworth, N. J., and greatly heartened the boys and served to make the victory over Upsala College all the more impressive.

This continued appreciation of the team by fellow-students will force them to continue the fast, winning pace they have lately set as their standard.

SOPHS TO PLAY FRESHIES

This Friday, Feb. 4, the much-touted Soph basketball team will meet the Freshman quintet at the Oliver Street gym in what is expected to be a very fast game. Both teams expect to have a strong lineup. Ben Diamond, the varsity tackle will probably act as referee.

renthesis that this epidemic, as we were pleased to term it, is due partly to the splendid efforts of the aforementioned committee.

The following temporary officers were elected until the adoption of a constitution:

President, M. Russo.
Vice-Pres., J. H. Haupt.
Sec'y and Treas., H. Baccigaluppi.

The meeting of G. S. 24, which was postponed last week, will be held this Wednesday instead. Chairman Mankowitz announces that election of permanent officers for the remainder of the term and the adoption of a constitution will be the order of the day.

THE NIGHT VARSITY BASKET BALL TEAM

has cancelled the
Brooklyn Law Game of
FEBRUARY 12, 1921

so that

Founders' Day

will be justly celebrated by all
students that night in
the great

Hall of Cooper Union

Be Sure You Are There

Compliments of
SEID'S BUFFET LUNCH
37 COOPER SQUARE
(Between 5th and 6th sts.)

Good Food
Quick Service
Reasonable Prices

We solicit your patronage

"CARRY ON!"
with the
COOPER PIONEER

Chem. 26

Columbia Urn
RESTAURANT

130 LIBERTY ST., N. Y.
Convenient for Commuters