

THE TECH

VOL. XXXIII. NO. 75.

BOSTON, MASS., THURSDAY, NOVEMBER 13, 1913

PRICE TWO CENTS

C. B. ROWLEY GIVES M. E. SOCIETY TALK

"Use Of Cork For Refrigerating Insulation"—Sophomores To Be Eligible To Society.

A meeting of the Mechanical Engineering Society was held yesterday afternoon at 4.15 in 11 Engineering B. Society business was first taken up and then a talk on "The Use of Cork for Refrigerating Insulation" was given by C. B. Rowley.

It was decided in the business meeting to accept the suggestion of the Institute Committee that Sophomores be eligible for membership the first term. This is to be acted on and the Constitution amended within a week, so that all Sophomores in Courses II and X who desire to join may then be admitted.

The speaker, C. B. Rowley, graduated from the Institute in 1912 and was assistant in the Physics Heat Laboratory for one year. He is now with the H. W. Johns-Manville Company. Insulating materials in general, for cold storage plants were first taken up, and it was shown that cork is the most efficient insulator. The first contract for cork insulation was taken to insulate a cold storage room of a ship. It proved to be successful, and started the industry of cork board manufacture for insulation. The boards are now made from pure granulated cork, compressed to one-half its original volume, baked in moulds, and allowed to cool gradually. In applying these boards to cold storage rooms a layer of asphalt is first put on the walls, then a layer of boards, then another layer of asphalt, a second layer of boards, finished over with Portland cement. In case a floor of large area is to be insulated, regranulated cork is used with the boards, making a cheaper

(Continued on page 3.)

TRIP TO CABLE FACTORY

Electrical Engineering Society Merit Spend Three Hours In Plant.

Yesterday afternoon the Electrical Engineering Society took a trip to the Simplex Wire Cable Co.'s plant in Cambridge. About twenty men went and all apparently enjoyed it.

The party divided into small groups and each of these was shown through the factory by one of the employees. Three hours were taken up in seeing the operations of the different machines and in watching the various processes by which the cables are manufactured. Everything seen was very similar to the slides shown at Mr. Morse's talk the previous evening; but of course more time was available and a closer investigation could be made.

Another party will make the same trip tomorrow.

FEW NOMINATIONS

In spite of the fact that the Freshman nomination papers are due Saturday, only one had been handed in at the Cage last night. A few others are being circulated, but the indications are that there will be very little competition for any of the class offices.

ECONOMICS CLUB OUT IN FORCE

Yesterday's Meeting Short But Enthusiastic—Kuttner's Views Assailed.

The officers of the Economics Club are warm in their praise of the spirit which was shown at yesterday's meeting. The long awaited discussion, although clipped rather short for want of time, was felt to have been an admirable success, and more of the same kind are promised for future.

Nearly half the time was taken up with the preliminary business meeting. This finished, the floor was given to P. W. MacNeill '15, who had been appointed to voice opposition to the sentiments expressed by President Kuttner at the previous meeting. MacNeill gave a short review of Kuttner's speech, and followed with what he considered a refutation of the President's arguments. Kuttner, he said, had claimed Socialism to be concerned primarily with production. Whether this is true in a strict sense was to be doubted, but the bearing of it on the matter in hand was not of sufficient importance to warrant more than a passing consideration. Kuttner had next given an analysis of the present capitalist system of production, and with this analysis the speaker was in perfect agreement. The capitalist system, he said, leaving production as it does to private initiative for private profit, tends to destroy the social consciousness of the individual, and thus to make his economic activities selfish if not actually anti-social. With Kuttner's definition of Socialism as the organization of society in a manner such that production would be carried on by the people as a whole and for their own benefit, the speaker was also in perfect agreement; but with the further statement that this was a good conception as well as a good definition, he strongly disagreed. The point, he admitted, was rather fine, but he felt that consideration of it would show it to be of no inconsiderable importance.

(Continued on page 2.)

COSMOPOLITAN DANCE

Affair To Be In Hotel Tuileries Friday Evening.

The annual dance of the Cosmopolitan Club is to be held Friday evening at eight o'clock, in the Hotel Tuileries, 270 Commonwealth Avenue. Mrs. R. C. MacLaurin, Mrs. A. E. Burton, and Mrs. R. P. Bigelow are the matrons. There are a few tickets left, which may be obtained by a note to the Cosmopolitan Club Dance Committee.

The members of this committee are: K. McFarlin, L. W. Snow, R. J. Murphy, A. H. Waitt, and C. E. Fox.

TECH SHOW ORCHESTRA

The Tech Show Orchestra held a rehearsal yesterday afternoon in the Union. A cut is to be made in two weeks and so all the men should attend every rehearsal if possible. The orchestra could use a bass, a cello, and a snare drum and traps.

KOMMERS DINNER TONIGHT IN UNION

W. P. Keith To Be Toastmaster—Tech Show 1914 Author To Be Announced.

This evening at seven thirty the annual Kommers Dinner will be held in the Union. The plans for the dinner have been completed and Steward Colton has been notified of the number of men who will attend the dinner. At present the number is not very large, but several men who have tickets to sell have not yet returned them to Business Manager Lord. The rumor about free beer and cigarettes has materialized. Aside from these Steward Colton promises a very good dinner.

The list of speakers is now complete. General Manager W. P. Keith



GEN. MAN. W. P. KEITH

is to be the toastmaster. He will be assisted by Dean Burton, Mr. Litchfield, and Mr. Emerson. These men will give their opinions concerning the Show, as outsiders having no direct connection with it. Ex-Stage Manager C. P. Fiske and Ex-General Manager Weeks will give talks concerning their work last year. Last year's Publicity Manager will tell of leader of the Tech Show Orchestra his work. F. L. Surls, who is the for 1914 will announce his plans for the orchestra this year.

Plans have been made for a larger number of men than have actually bought tickets, so anyone who may change his mind at any time previous to six o'clock, may obtain tickets either at the Cage or from any man who is selling them.

CATALOGUE PROOFS

The proofs for the student list of the catalogue for this year are posted on the bulletin boards throughout the Institute. Corrections of this should be left at the information desk in the Registrar's office, before Saturday, November 15. Last year many wrong addresses went into the catalogue through the failure of many men to send in these corrections, and it is hoped that they will be sent in this year on time.

REV. N. M. THOMAS TO SPEAK THIS NOON

"Immigration, A Challenge to Patriotism And Christianity," Subject Of Talk.

The T. C. A. has secured the Rev. Norman M. Thomas, of New York City, to speak in the Union this noon. Mr. Thomas, who is a brother of Ralph L. Thomas '13, will speak on "Immigration—A Challenge to Patriotism and Christianity." Mr. Thomas has had unusual experience among foreigners and immigrants in New York City, and he is well qualified to speak on a question which is of such great importance to the nation and its people. He is chairman of the American Parish, of the East Side, an active organization of Presbyterian Agencies in the Polyglot District. Mr. Thomas has three churches under his charge, two of them are foreign churches, Hungarian and Italian, and the third is the American church, where he personally directs the work. A settlement house also comes under his supervision.

Mr. Thomas is said to be a very interesting speaker, and with all his varied experiences in his line of work, he will present the many difficult problems of immigration which constantly arise, and he will probably tell just how the church copes with them. Last summer he was one of the most forceful speakers at the Northfield Student Conference. He was also selected by delegates at the Conference from Technology and B. U. on one occasion as a special speaker. The fact that the T. C. A. has invited him to come all the way from New York solely to give this talk should insure a large audience.

WEATHER

For Boston and vicinity: Fair and warmer; moderate to brisk west to south winds.

CALENDAR

Thursday, November 13, 1913.

- 1.30—T. C. A. Talk—Union.
- 2.00—E. E. Society Trip—Simplex Wire Cable Co., Cambridge—Meet in Library in Lowell.
- 4.00—C. E. Society—11 Eng. B.
- 4.00—Du Pont Cup Competition—Field.
- 4.00—1917 Basketball Practice—Gym.
- 4.00—Wrestling Practice—Gym.
- 4.00—Soccer Practice—Field.

Friday, November 14, 1913.

- 9.00 A. M.—Cross-Country Team Leaves North Station.
- 7.15—Chemical Society Meeting—Union.
- 7.45—Mechanic Arts H. S. Club Smoker—Union.

Saturday, November 15, 1913.

- 4.00—Sophomore Nominations Due—Cage.
- N. E. Intercollegiate Cross-Country Run—Hanover, N. H.

THE TECH

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THURSDAY, NOVEMBER 13, 1913.

In Charge of This Issue:

Editor—E. F. Hewins, 1916.
Assistants—J. B. Carr 1916, R. C. Fellows 1916.

Notwithstanding several recent suggestions that we adopt a less critical attitude toward affairs in general, we wish to call attention to one habit which is casting discredit on the Institute—the habit of neglecting to observe common decency in the Union dining-room. We mention this, not because of a desire to be critical, but in the hope of influencing the actions at the Kommers Dinner tomorrow night which will be attended not only by the chief men connected with the Institute, but by many outsiders.

Such things as tying up napkins and throwing food about have been thoughtlessly indulged in all too freely of late. While things like these may be tolerated in the homes of the offenders, we should hardly think they would care to advertise the fact. Prep. school gatherings, and even those at the more frivolous type of colleges, may indulge their youthful ebullience in this way, but a meeting of Technology men, called for the purpose of entering upon the year's activities of one of the major Institute organizations, is certainly no place for such demonstrations.

If the soccer team does not within a reasonable time receive better support from the students, we think the sport should be discontinued. Believing that there are great possibilities in the game, we should strongly regret having this happen, but there are enough half-supported activities as it is.

We note with pleasure that the Institute Committee is to take up the

CROSS-COUNTRY TEAM TO GO TO HANOVER

Will Enter The N. E. I. C. Cross-Country Run On Friday—Team Picked.

The Technology Cross-Country Team starts from the North Station tomorrow morning at nine o'clock for Hanover, where the New England Intercollegiate Cross-Country Run is to be held this year. Nine colleges are to be represented. Those that stand the best chance of winning first place are Brown, University of Maine, Dartmouth, and Technology. Tech stands a very good chance for first place. The men on the team are Captain A. F. Nye, H. S. Benson, A. A. Cook, E. M. Newlin, C. S. Lee, C. T. Guething, and C. H. Wilkins. It has been proposed to have a large body of students escort the team to the station and give them a rousing good send-off.

ECONOMICS CLUB

(Continued from page 1.)

In order to bring out the distinction between a definition and a conception, the speaker mentioned the method of study in the course in vertebrate anatomy, which he is taking this term. The course does not consist merely of the classifying and pigeon-holing of the various vertebrates, but branches out into a consideration of their physiology, embryology, histology, etc., in order that a true conception might be gained of the relation of the anatomy to the external environment, both past and present. In like manner Socialism must be considered as something more than merely a dry and mechanical shifting from one system of production to another—it must be understood as a living and growing thing, vitally bound up with the great theories which it was the first to propound. The Utopians of the last century, he continued, were narrow in their economic viewpoint, and thought by mere reforms to alleviate existing economic flaws; but the Socialism of Karl Marx is based on a recognition of the reality of economic law, and may thus be considered as more rational and scientific than that of the Utopian schools. The adoption of a viewpoint such as Kuttner's, by destroying the idea of economic determinism, would reduce the Socialist movement to the same level with reform schemes, and strip it of its main significance as well as of its dignity. It would justify the accusation of the Socialist Labor Party that the Socialist Party is merely a party of short-sighted schemers with no true conception of Marxism. With emphasis on this point that the speaker brought his remarks to a close.

The next meeting of the Club will be held two weeks from yesterday. A speaker will probably be secured, since several are under consideration, and the talk may be given in the Union. The officers hope that any man having ideas for the meetings will not be bashful about announcing them.

question of uniform class constitutions, which we strongly urged in a recent editorial. As the affairs of all classes are practically identical, there is no need for any difference in governing codes, and if a permanent document were worked up by a deliberative and yet not unwieldy body like the Institute Committee, it could receive the attention it deserves, and confusion like the recent Sophomore balloting dispute would not occur.

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Since the fiftieth anniversary of the founding of the Massachusetts Institute of Technology, in April, 1911, the Institute has been coming steadily into its own. The first gift was that of T. Coleman duPont and this was the sum of \$500,000 with which the land for the New Tech was bought. This gift proved to be the turning point and the list of bequests and remembrances in the intervening two years is almost phenomenal and bears testimony to the high esteem in which Technology and its president, Dr. MacLaurin, are held. A list of the gifts is as follows:

Coleman duPont, for the land;	\$ 500,000.
Massachusetts, for maintenance,	1,000,000
"Mr. Smith," for educational buildings,	2,500,000
Members of Corporation, balance on land,	250,000
Bequest, Mrs. Rogers, unrestricted,	600,000
Bequest, Mr. Green, scholarships, etc.,	600,000
C. W. Eaton, for equipment,	10,000
Pratt Bequest, Naval Arch. School,	750,000
Alumni subscriptions,	500,000
Anonymous, for buildings,	500,000
Anonymous, unrestricted,	100,000
Anonymous, Engineering Camp,	40,000

This list totals \$7,350,000, and together with the bequests with conditions the outlook for New Tech was never better. These conditional bequests are: The Bartlett bequest, \$100,000; the Weld bequest, about \$100,000, and of Mary C. V. Speare of \$5,000.

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LARGEST WRESTLING SQUAD EVER OUT

One Hundred and Three Freshmen Out--Cuts Must Be Made--Novice Meets Arranged.

At present there are one hundred and three Freshmen who are taking wrestling in place of the regular gymnastic work. This is probably the greatest number any athletic sport has ever had out and according to the coach who has seen the new men working out, should form the nucleus of one of the strongest teams Tech has ever developed.

On account of the small space the wrestling teams have allotted to them at the Gym, and also on account of the fact that there is but one mat for so large a number to work on, a cut must be made. In order to meet this difficulty it has been decided to keep but 60 men. This includes all those on the squad regardless of whether they are Freshmen or not. Ten men will be kept in each of the 6 classes. The positions will be entirely competitive, for if any man thinks he should be one of the ten men in his class he has simply to challenge any man in his class, and if he succeeds in throwing his opponent he shall take his place on the squad. The names of men who make the squad will be posted in the gym a week from this Monday. All Freshmen who do not find their names on this list must report at once to the regular gym class. As there is but one man on the regular squad in the 115-pound class, there is a chance for nine Freshmen to make the squad, and so in the other classes there are chances for six to eight Freshmen.

There are several novice meets arranged for those men who do not make the regular team, and who have not yet competed in any meets. The first is scheduled with the Y. M. C. A. team on Dec. 6. Later in the year there is one with the Allen School at West Newton and also one at the Tech Gym. There is a possibility that in the near future interclass wrestling teams will be formed and the winners on these teams will probably be awarded numerals.

So far eight meets have been definitely arranged. The manager has several other meets in view. The ones scheduled so far are as follows:

- Dec. 6--Novice Meet with Y. M. C. A.
- Dec. 13--Beverly Y. M. C. A.
- Jan. 17--Boston Y. M. C. A.
- Jan. 3--Clapp Memorial Assn., East Weymouth.
- Feb. 12--Salem Y. M. C. A.
- Feb. 21--Abington Y. M. C. A.
- Feb. 28--Open Meet, East Weymouth.
- March 7--Boston Y. M. C. A.

M. E. SOCIETY

(Continued from page 1.)
but less efficient insulator. Samples of regranulated cork, cork board, and impregnated cork were shown.

Mr. Rowley next demonstrated the method of calculating the efficiency of insulating materials. Lantern slides illustrating this process as it is carried out in the laboratory were shown. He also gave the method by which, if the cost of ice is known and the inside and outside temperature of the room, the desired thick cork may be found. This is done by the use of a curve, the abscissas of which represent the differences in temperature and the ordinates the cost of ice per ton. The methods of putting up walls in cold storage rooms under various conditions was shown by drawings and the apparatus used was described.



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STUDENTS

PATRONIZE

OUR ADVERTISERS

ENGINEERING AND SCIENTIFIC NOTES

The Scientific American Supplement for Nov. 8th contains several articles of interest which we enumerate briefly below.

An article on "By-Products of the Modern Coke Oven," by C. A. Meisner, gives a discussion of several new processes for the recovery of the ammonia as ammonium sulphate without the use of the old-fashioned "scrubbing" towers, among which are the Otto, Feld, Collin, and Thio-sulphate processes. The article is very well illustrated with diagrams of the units constructed to work these various methods.

In a previous issue we spoke of the development of internal combustion engines designed to consume kerosene, and mentioned the fact that the carburettor must receive some external heat in order to obtain a proper vaporization of the liquid. An article on "Characteristics of Kerosene as Fuel for Internal Combustion Engines," describes in detail some of these carburettor devices, and among them one which requires no heat for its operation.

An article which discusses ball-bearings and their application to modern industry by F. H. Poor.

The first of a series of papers by Robert S. Whipple on "Modern methods of Measuring Temperature" describes in an interesting manner the various instruments which engineers and scientists have devised to solve difficult problems of temperature measurement is illustrated by many diagrams and cuts of the apparatus and will doubtless be of interest to students of heat engineering.

The entire system of the Canadian Pacific Railway may be electrified. This was the declaration of Sir Thomas Shaughnessy, president of the road, as he started for Winnipeg to inspect sites there for new terminals. The work now being started in the Rocky Mountains toward the operation of electric instead of steam locomotives over several divisions is merely an experiment, he declared, preliminary to the installation of electricity throughout the system if the experiments prove successful. The Rocky Mountains division, where experiment work is being done, presents every problem of handling traffic known to railroading, and if electricity succeeds there its universal adoption on the entire system is certain. Freight and passenger trains alike are to be handled by electricity, and there are plenty of water-power sites available for developing the power over the entire system if the heavy grades in the mountains can be conquered by the electric locomotives.

Guard as carefully as life itself a high standard of professional honor and integrity: Whatever the measure of your professional success—whether wealth and reputation crown your career, or disappointment and poverty be your constant and welcome companions,—let no taint welcome companions,—let no taint of suspicion attach to any professional act or utterance.—Baker.

Let me counsel each one of you to set for himself sooner or later an ultimate object to be accomplished, and let him ever strive toward its attainment. If he succeed, he will be well repaid by the satisfaction of feeling that he has done some material good for his fellow mortals; but if not, he will still feel that he has done his best, and that his life has not been in vain.—Waddell.

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