

THE TECH

VOL. XXXIII. NO. 115.

BOSTON, MASS., WEDNESDAY, JANUARY 7, 1914.

PRICE TWO CENTS

ELECTRICALS GIVE ANNUAL BANQUET

Mr. B. A. Behrend And Prof. Jackson Make Speeches—Novel Menu Card.

Over seventy men enjoyed the annual mid-year dinner of the Electrical Engineering Society last night at the Engineers' Club of Boston. A most unique menu had been prepared. It was thoroughly in spirit with the season and with Course VI. It is given below:

No hacksaws, butcher knives, or other instruments, except those specifically authorized by the examiners in charge, should be in the possession of students during the examination. If brought into the rooms for any reason, they must be left with the toastmaster.

Electrical Engineering Society Annual dinner—Engineers' Club, Boston.

Time: two hours (more or less). (Smoking and talking allowed during this examination).

For Course VI, and others of course.

1. Explain carefully "Canape d'Anchoise," basing such explanation upon experiment.

2. Why is a "Chicken Gumbo Creole? (No undue noise will be tolerated in answering this question.)

3. "Paupiettes of Turbot Cardinal" is synchronized with "Parisienne Potatoes." Calculate the circulatory current.

4. An amateur has forced through it a flux of "Roast Ribs of Beef au jus." (a) Find the core loss, using values for eddy current and hysteresis losses which are respectively "String Beans" and "Potatoes Espagnole." (b) Calculate the effective resistance, reactance and slip.

5. Show how a heat run may be made on "Napoleon Slices," and determine if it conforms to Epicurean specifications.

6. Why are some transformers "coffee"—cooled?

Proctors: Mr. H. B. Richmond, toastmaster; Mr. H. F. Thomson, Mr. C. W. Green, Prof. D. C. Jackson, Mr. B. A. Behrend.

"Head Proctor" H. B. Richmond, to whose untiring efforts much of the success is due, started a rapid fire introduction. Mr. H. F. Thomson, of the Research Department outlined the itinerary of mid-year trip. This was according to the latest statistics, and fully in keeping with the advance of the art.

Mr. Green gave the Juniors advice about the laboratory work. He said this would prove especially valuable to the men about to begin E. E. Lab.

(Continued on page 4)

1917 BASKETBALL

The Freshmen Basketball Team will play the team representing the St. John's Preparatory School at Danvers, Massachusetts, on Saturday of this week. Manager Rausch wishes the following men to report at the North Station in time to take the 1.15 train: O'Brien and Kendall, guards; Dokey, center; Richardson and Rausch, forwards; Cowlin and Getchell, substitutes.

INTERCLASS INDOOR MEET COMES FRIDAY

Close Contest Expected—Trials For 440 Will Be Run Thursday.

The sign up book for the interclass track meet that is coming off Friday night has already been posted in the Union and a number of men have signed up. The events are the 35 yard dash, 40 yard high hurdles, 220 yard, 440 yard, and mile runs. For the field events there is the pole vault, shot put, and high jump.

The elimination trials for the 440 yard run will be held Thursday and all men who are to enter this event must sign up before Wednesday night. Tom Guething, who is to run, is going to try for a new indoor record. He is in the prime of condition and as all events are scratch, he expects to keep ahead for the entire quarter.

Last year the Class of 1914 cleaned up the meet with 38 points, 1915 was second with 22, and the Freshmen a close third with 21. The improvement that 1916 has shown this year, coupled with the fact that the Juniors and Seniors have lost a number of point winners points to a close contest between the Seniors and Sophs. Of course the Freshmen have a large majority in the entries, but these outside of two or three exceptions, cannot be counted point winners if the men in other classes turn out.

WIRELESS SOCIETY

Will Meet In 11 B This Afternoon—Open To Everyone.

This afternoon at 4.15 the Wireless Club will hold a meeting in 11 Engineering B. This is the first meeting which the Society has held this year, and it will be a very important one, for the future policy of the Club will be determined. This meeting will be open not only to the members but to all men who may be interested in wireless. Every man present will be given an equal voice in the proceedings, and any new ideas will be gladly received.

1916 CLASS PIPES

Today will be the last opportunity to secure 1916 Class pipes at the special rates offered by the Pipe Committee. The price is \$2.50, including the inlaying of the "1 T 6." If secured by each man independently, as a special order from a pipe store, the cost would be \$3.00 each, so there is considerable saving in buying from the Committee.

Six shapes are offered, but only one of these is official. The pipes will be on sale in the Union from 1 to 2 and from 4 to 6 P. M. A deposit of \$1.50 must be made on each order, not as was previously stated, \$1.00.

Bowdoin has increased the number of high school debating leagues under her supervision. This year there are to be two leagues instead of one.

First relay trials will be held this afternoon.

CHEMICAL ENGINEER TALKS BEFORE FORUM

Head Chemist With Stone And Webster Discusses New Science.

Over sixty men gathered at the Forum meeting yesterday noon to listen to Dr. Mackaye, Chief Chemist for the Stone and Webster Engineering Corporation, who discussed the "Beginning of Political Engineering." In introducing the speaker, President Kuttner of the Forum declared that Dr. Mackaye is one of the few men who are beginning to wonder whether the present guesswork status of economics cannot be simplified and made more tangible by the application to economic questions of the principles which, utilized in scientific endeavor, have done so much for the advancement of human welfare. He commented upon the unsettled nature of economic doctrines, and expressed the opinion that interest should be taken in every attempt to better the situation.

Dr. Mackaye defined Political Engineering as the application to politics for political ends of the same methods that serve scientists and engineers in the attainment of scientific and engineering ends, and gave in outline the methods and assumptions upon which this as yet undeveloped science is to rest.

Engineering, said Dr. Mackaye, was once as unscientific as is politics today. Its study of relations between cause and effect, and its conscious adaptation of means to ends, have grown into being only after long periods of empirical and unsystematic work. The first advances of science were into such material and impersonal fields as physics, chemistry and astronomy, its progress into fields where personality and sentiment predominate more largely having been retarded by the feeling that these branches were not proper subject matter for treatment in its cold and abstract spirit. Science as a method, however, is quite independent of its subject matter, and in spite of opposition from various sources has pushed into the fields of biology, geology, psychology, etc., with ever beneficial results. As an instance of this progress, the speaker cited the development within his own professional field, chemistry, of synthetic methods. He told of the time when the gap between organic and inorganic was felt too great to be bridged, and traced the progress of the science until now substances closely related to the proteids have been artificially produced.

People reach conclusions, said the speaker, in two ways: first, by the intuitive method, in which only the primitive feelings of the individual are considered; second, by the logical method, which makes use of the relation between cause and effect, and introduces the conception of truth in the abstract. Truth in the abstract is not affected by the feelings of the individual. Politics, unlike the physical sciences, is not yet out of the realm of intuition; but there is no reason, according to the speaker, why questions of human happiness could not be studied as scientifically as are other problems, if only proper attention were given to ends in view and to such

(Continued on page 3)

RIFLE TEAM MEETS UNIV. OF CALIFORNIA

Institute Men Shoot At The Cadet Armory—Result Will Be Known Later.

The M. I. T. Rifle Club shot a match in competition with the University of California yesterday afternoon. The Tech team used the range at the First Corps of Cadets armory on Columbus Avenue. Ten men took part. The scores made by the five highest contestants from the Institute Club will be counted. These will be sent to the National Rifle Association, where they will be compared with those made by the California men, so result of the match will not be known for some time.

Each man fired ten shots from a standing position, and ten from prone position. The range was 50 feet, with a half-inch bull's eye. The scores follow:—

	Scratch	Prone	Total
E. J. Casselman	92	94	186
G. G. Haslam	91	94	185
M. F. Brandt	84	93	177
C. T. Dunn	82	95	177
H. J. McDonald	89	84	173
T. D. Parsons	85	85	170
J. C. Platt	78	85	163
A. E. Tuttle	—	94	—
R. E. Low	75	—	—
C. H. M. Roberts	—	73	—

Perfect score, 200.

COSMOPOLITAN CLUB

Business Meeting And Discussion—Last This Term.

The last meeting of the Cosmopolitan Club to be held this term will take place today at 5 in 8 Engineering C. The report of the British National Chairman on the British National Night will be read, and also a report from Dr. Nasmyth on the Iowa Convention. Following these will be a discussion and business meeting. The presence of the National Chairmen and the Special Committee is requested.

CALENDAR

Wednesday, January 7, 1914.

- 4.00—Preliminary 180 Yard Trials.
- 4.00—Rifle and Pistol Club Practice—Armory, Columbus Ave.
- 4.15—Wireless Club Meeting—11 Eng. B.
- 5.00—Business Meeting, Cosmopolitan Club—8 Eng. C.
- 6.00—Sale of 1916 Class Pipes Closes—Union.

Thursday, January 8, 1914.

- 1.00—Soph Football Picture—3 Park Street, Notman's.
- 4.00—Preliminary Trials 440 Yards Dash, for Interclass Meet—Gym.

Friday, January 9, 1914.

- 4.00—Rifle and Pistol Club Practice—First Corps Cadets Armory, Columbus Avenue.
- 4.30—Major Cole Speaks Before C. E. Society—Union.
- 7.30—Indoor Interclass Meet.

The Institute Committee picture was taken yesterday.

THE TECH

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WEDNESDAY, JANUARY 7, 1914.

In Charge of This Issue:

Editor—Ralph Millis '16.
Assistants—H. E. Lobdell '17, E. W. Curtin '17, W. A. Futterer '17.

The proposal to include group pictures of the fraternities with their inserts in *Technique* 1915 has not heretofore been commented upon in these columns as its status has been in doubt, but now that most of the fraternities have taken favorable action, it seems that such an important change should receive the consideration of the Institute at large. We shall endeavor to take an entirely impartial attitude, presenting the arguments of both sides as we understand them.

The considerations which induced the *Technique* Board to propose the change are: first, the increased value of the book to all who buy it, by reason of these photographs, which will include most of the well-known men at *Technology*, and therefore most of those whose pictures are worth keeping; second, that the book will be enlarged and improved, and compare more favorably with those issued by the larger colleges and universities; third, that the fraternity men will receive better value for the cost of their inserts.

The opponents of the measure argue: first, that a picture in *Technique* is an honor to be reserved for members of general Institute activities; second, that it slights the large percentage of men who do not belong to fraternities; and third, it savors of self-exploitation on the part of these organizations.

The fact that most of the better class of college year-books in the

COLLEGE NOTES

Thirty-four years ago the University of Minnesota had only two buildings and today it has two campuses containing 65 buildings with additional equipment scattered among five towns of the state. The university has grown from an institution having 177 students of collegiate rank to one having an attendance of 3,000.

In 1880 the university payroll was \$29,081.30, and this year it will be nearly 45 times that amount. The total income of the university at that time was \$33,728, now it is approximately \$3,000,000.

The entire faculty consisted of fifteen people 34 years ago, and now there are 431 members of the faculty, besides lecturers, assistants, readers, librarians, secretaries, stenographers, clerks, technicians, electricians, mechanics, photographers, cataloguers, farmers, nurserymen, gardeners, stockkeepers, and various other service people.

President Lefavour in his recent report to the corporation of Simmons College urged the need of more dormitories and additions to the educational plant, including an auditorium, gymnasium, library and library school, laboratories, domestic arts and student buildings.

In Edinburgh there is a fully equipped wireless telegraphy station and school for the instruction of operators. This station is in communication with a similar institution in Glasgow. Communications are taken from Poldu, Berlin, Spain, and even from the Mediterranean.

The students at Graz University, Rome, Italy, upon finding that their demands for an Italian faculty were not to be acceded to started a public agitation. On their parade around the city they found the path blocked by the German students, and a serious fight took place. Police interference was necessary to quiet the disturbance.

At the annual dinner of the Class of 1878 at the University of Pennsylvania there were twenty-three men who came together to renew old friendships.

The regiment has taken up battalion parade.

country print such pictures has a general bearing on the question, as has the fact that practically all fraternity men buy *Technique*. On the other hand, any hostility between fraternity and non-fraternity men would be particularly disastrous to all Institute activities. Communications on the subject written from either standpoint will be welcomed.

We note with something of regret that the Sophomore class has failed this year as well as last to use the board posted in the Union for the names of those who have and have not paid class dues. The board has been posted for a sufficient length of time so that this failure can be attributed to little else than carelessness. We do not mean to exaggerate the importance of the matter, or to imply that the second-year men are guilty of any serious offense; but it is precisely this sort of thing—neglect in little matters which do not call pressing for attention—that sometimes does so much to demoralize the businesslike conduct of student affairs.

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**BISHOP LAWRENCE
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Well-Known Church Worker To Talk
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This Term.

The T. C. A. speaker for next Thursday will be the Right Reverend William Lawrence, Episcopal Bishop of Massachusetts. The Rev. Mr. Lawrence is one of the best known churchmen of the country. He has also interested himself in organizations outside of the church, believing that he could give the best service to his fellows by following several lines of activity. Civic and social works have received a large share of his attention, and he has also published several books on a variety of subjects.

This is to be the last meeting of the T. C. A. this term, and the officers expect a large attendance, since the men will not soon have another opportunity to hear the noon talks. The fact that this is an opportunity to hear a prominent speaker adds to the probability of a larger crowd than usual.

FORUM TALK

(Continued from page 1)

means for the attainment of them as lie within the range of human ability. Ends may be classified as proximate and ultimate. Ultimate ends are those which exist in terms of human consciousness; proximate ends are those which are subservient to ultimate. The engineer's work, in common with all work, must be such as finally to affect human welfare, if it is to be of value.

Political engineering rests upon the employment of impersonal methods for the determining of ultimates. The first question is that of the end itself, for we shall have no idea of what means to employ unless we understand why they are to be employed at all. The haphazard methods by which great social questions and political are settled at the present time, with no conception of the goal toward which the race is progressing, are as foolish as would be an attempt to fit up a factory with machines by an engineer with no idea of what the factory was to turn out.

The things of greatest interest to us, continued the speaker, are those which impress themselves most forcibly upon our consciousness. States of consciousness are found to fall into four classes—approbation, disapprobation, happiness and unhappiness. On the basis of this classification, two methods for the testing of the value of acts become manifest—the intuitional, where primitive feelings of self-blame or praise are considered, and the hedonistic, where pleasure and displeasure form the criterion. Conclusions reached from the former standpoint are scientifically invalid, because acceptance of them involves reasoning in a circle. The adoption of a "moral code" is an instance of this. The code is made a criterion because the person adopting it feels instinctively that every case covered by it will meet with approval. The code, however, is itself a matter of approval, and would be no criterion for a person whose feelings differed from those of the original promulgator. If two persons disagree concerning the right or wrong of a particular act, an arbiter between them can do nothing more than consult his own "feelings" and judge by his own "standard."

In order to find a suitable basis upon which to study human beings, we are then forced to go beyond the intuitional. We must fall back upon happiness as our criterion. Happiness, fortunately,

(Continued on page 4)

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FORUM TALK

(Continued from page 3)

can be measured as well as a heat was measured by scientists before the introduction of the thermometer, and sufficiently accurately for so young and undeveloped a science as that under consideration. Maximum happiness is not nearly so difficult to judge as one might suppose—we judge it every day of our lives, and can work with it with some degree of certainty.

At this point must be noted a fallacy into which many moralists fall. The moralist accepts the hedonistic basis, but accepts it through a process of approval, so that, instead of accepting it absolutely, he is really denying it, the basis of his reasoning being the old in-titutional method which he professed to have left behind.

Once this point is reached the nature and scope of political engineering becomes clear. Men are to be regarded more or less as machines, and methods are to be devised whereby their lives can best be adapted to the establishment of such a relation to their environment as shall entail the maximum amount of happiness. Three points are to be considered: the efficiency of the individual as a working machine; the adaptation of the machine to the environment in which it is to do its work; and the number and distribution of such machines which will be required to do any particular branch of the world's work. The speaker made clear that there is room for quarrel with this classification, since it is not intended to serve as more than a rough indication of the method work which the political engineer will be obliged to adopt.

The science of human welfare, the speaker concluded, will in time surpass in interest and importance all other sciences, for it will be the supreme end toward which each of them will contribute its quota. At the present time political engineering is as crude as was chemistry three hundred years ago, but the day will come, he said, when a course in it will be a feature of the work of the regular student at the Institute.

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ELECTRICAL DINNER

(Continued from page 1)

As usual, Prof. D. C. Jackson was appealed to for a talk on "Why is Course VI?" His reason amply satisfied the hearers.

The principal speaker of the evening was Mr. B. A. Behrend, who has had a very prominent position in the reorganization of the Westinghouse Company. Mr. Behrend did not call his talk a speech, but an answer to the question, "What opportunity does the Westinghouse Company offer a graduate?"

Emphasis was laid on the fact that the man must dig for himself. He must be able to stand two years of grilling work under some trying circumstances. No man can hope to reach a position of any prominence without having a thorough foundation. The combination of the theoretical training and the two years of apprenticeship is very desirable, for a man having any ambition and initiative. Mr. Behrend agreed with Prof. Jackson, that a man cannot stop striving for his ideal after twenty-five or even forty wears of hard conscientious work. On the other hand, Mr. Behrend, who is a bachelor, most decisively disagreed with Prof. Jackson on the question of how much "The Best Girl" affects the realization of an engineer's ideals.

Mr. Behrend emphasized the point that the man who conscientiously works for the attainment of his ideal is the man who realizes the greatest satisfaction. This was the keynote of the whole talk.

Watch for the examination schedule in THE TECH.

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