ELECTRICALS GIVE ANNUAL BANQUET
Mr. B. A. Behrend And Prof. Jackson Make Speeches—Novel Menu Card.

Over seventy men enjoyed the annual midnight 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 haystacks, butcher knives, or other instruments prohibited. Those specifically authorized by the examiners in charge shall 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 time.)

For Course VI, and others of certain grades, and fully in keeping with the advanced standing of students during the examination:

1. Explain carefully “Canape d’Anchoise,” basting such explanation upon the modern scientific approach to the production of culinary delights.

2. Why is a "Chicken Gumbo Creole" a marvel? (No undue noise will be tolerated.)

3. "Paupiettes of Turbot Cardinal" is synthetized and oxidized with "Park Avenue Potatoes." Calculate the circulatory current.

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

5. Show how a heat run may be made without the use of a safe, 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 Mr. H. B. Richmond, to whose 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-season trip. This was according to the latest statistics, and was 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 freshman basketball team will play the team representing the St. John’s Prep School at Danvers, Massachusetts, on Saturday of this week. Manager Rausch wishes to remind the following men to report at the North Station in time to take the 1:13 train; O’Brien, B. F. Hall, Dowry, E. Richard, and Rausch, forwards; Cowlin and Getchell, centers.

INTERCLASS INDOOR MEET COMES FRIDAY

Close Contest Expected—Trials For 400 Will Be Run Thursday.

The sign up book for the interclass track meets which 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 then. Tom Goethig, 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 week.

Last year the Class of 1914 cleaned up the meet with 38 points while 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 number of novices in the entries, but on the other hand the side 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 have its monthly meeting. The meeting is at Engineering B. This is the first meeting at which the Society has held this year, and will be a very important one. The program for the future policy of the Club will be determined. This meeting will be open only to the members but to all men who may be interested in wireless. Every man present will be given the opportunity to have his ideas heard, and any new ideas will be glad ly 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 laying of the “I 74” if secured by each man before Wednesday, at the ordinary price. The cost would be $3.00 each, so there is a 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 is required on each. Pipe not as previously stated, $1.00.

Bowling has increased the number of high school debating leagues under its 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 evening to listen to Dr. Mackaye, Chief Chemist for the Stone and Webster Engineering Corporation, who spoke on the "Beginning of Electrical Engineering." In introducing the speaker, President Kattner of the Forum declared that Dr. Mackaye is one of the few men who are beginning to ponder whether the present guesswork 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 the science with a view to better the situation.

Dr. Mackaye defined Political Engineering as the application to politics for political ends of the same methods which are employed to serve scientists and engineers in the attainment of scientific and engineering ends. He gave in outline the methods and arguments upon which this as yet undeveloped science is to rest. Engi neering, 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 since 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 has been more largely the result of a continuous attempt on the part of those who discuss political questions to give voice to their opinions, inspired by desire to better the situation.

People reach conclusions, said the speaker, in two ways: first, by the scientific method and as an intuitional method; but there is no reason, according to the speaker, why questions of human happiness could not be scientifically as are other problems, if only proper attention were given to ends in view and to such methods as are most practicable for their attainment.
COLLEGE NOTES

Thirty-two years ago the University of Minnesota had only two buildings and today it has two campuses, one housing 65 buildings with additional equipment scattered among small towns in the state. The University has grown from an institution having 197 students of collegiate rank to one having an attendance of 24,000.

In 1880 the university payroll was $25,000.00, and this year it will be nearly 10 times that amount. The total income of the university at that time was $13,726; now it is approximately $3,000,000.

The entire faculty consisted of fifteen men 24 years ago, and now there are 431 members of the faculty, besides lecturers, assistants, resident engineers, secretaries, clerks, technicians, electricians, mechanics, athletic directors, photographers, cataloguers, farmers, gardeners, stockkeepers, and various other serving the people.

President LeFavour in his recent report to the corporation of the University College urged the need of more dormitories and additions to the educational plant, including a auditorium, gymnasiums, 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 Poldo, Berlin, Spain, and even from the Mediterranean.

The students at Gras' 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 battle parade.
BISHOP LAWRENCE
To Address T. C. A.

Well-Known Church Webber To Talk—Last Meeting Of
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 workers 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.


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Forum Talk

(Continued from page 1)

means for the attainment of them as 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 subsequent 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 determination of ultimate. 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 hazardous 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—approval, 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 motive feelings of self-blame or praise are considered, and the hedonistic, where pleasure and displeasure form the motive.

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 "the own" feelings and judge by his own "standard." In order to find a suitable basis upon which to judge human beings, we are then forced to go beyond the intuitional. We must fall back upon happiness as our arbiter. Happiness, fortunately (Continued on page 4)
Boston Opera House


FRIDAY, 8 to 11.5. JEWELS OF THE MADONNA. D’Alvarez, Ferrari-Fontana, Vaccari, Marcozzi, Cond., Moranzoni.

SATURDAY, 2 to 4.45. LUCIA. Tetrazzini, Heyman, Tanlongo, Everett, Leveroni, Cond., Danzow.

SATURDAY EVENING, 8 to 11. FAUST. Berizza, Swartz-Morse, Laffitte, Wronski, Grand, Everett, Leveroni, Cond., Deboiss.

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FORUM TALK

(Continued from page 3) can be assured as well as that was measured by scientists before the introduction of the thermometer, and conclusively accurately for so young and undeveloped a science as that under consideration. Maximum happiness is not necessarily 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, he is really denying the basis of his reasoning being the old Intrinsic 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 be best 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 gurrel 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 importance and importance all other sciences, for it will be the supreme and 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 in course in is will be a feature of the work of the regular student at the Institute.

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