

## Professors' Salary Raised at M.I.T. by Increasing Tuition

From the Massachusetts Institute of Technology newspaper, the "Tech," we find that the tuition there has been raised from \$400 dollars to \$500 a year to take effect in the fall of 1931. This is the second time within three years that the tuition rate has been increased at that school.

"This action, which has been under discussion for some time, was taken for the purpose of helping to meet the increased costs of education. The annual operating expenses at the Institute, which in common with other engineering colleges, must maintain expensive technical equipment for instruction, last year amounted to more than \$850 for each student, compared with the tuition of \$400.

"In 1881 when Technology was but 26 years old the tuition fee was \$200. . . . In 1906 it was increased to \$250 a year, and in 1919 to \$300 a year. In 1927 it was increased to \$400 a year."

The increased funds available will be used for the necessary expenses and also for providing a higher salary schedule for the instructing staff. It was stated that the Institute loses a great many men because of its inability to pay them attractive salaries.

A similar situation prevails at Armour, according to President Raymond and the Deans. The ratio is about the same as far as tuition and cost per student per year is concerned. The school spends \$530 on each student each year, while the tuition remains at \$250 a year. At Armour Institute, the tuition has risen steadily. From 1894 to 1896 the tuition was \$60, the expenses of the school being borne almost entirely by the Armour family. In 1896 the tuition was raised to \$75, in 1902 to \$120 dollars, in 1909 to \$125, in 1913 to \$150, in 1915 to \$175 dollars, in 1919 to \$180, in 1920 to \$200, and in 1925 to the present rate of \$250 a year.

President Samuel W. Stratton, of the Mass. Inst. of Tech., in commenting on the increased rate of tuition stated that "The men we have on the Faculty have stayed with us through loyalty more than anything else, considering that they could make much more outside, and the Corporation feels that they should get a salary commensurate with that paid other workers in the same field."

## Design Contest

Closes Jan. 27

The Collaborative Competition sponsored by the Association of the Alumni of the American Academy in Rome closes on January 27th.

This year, the competition consists of the design of the "Interior of a Sanctuary" for the body of the late President Woodrow Wilson which is now temporarily buried in Washington. "A group of his friends desire to erect for him and his family a final resting place that shall typify what this man represented to them—a great sociologist and idealist who labored and devoted his life to the furtherance of international peace and tolerance."

The competition is open to any group of students in schools of art or ateliers, or to anyone employed in offices or studios. Each team consists of an architect, an artist, and a sculptor. This year Armour is represented by M. R. Dobberman and R. R. Falconer, senior architects. The other members of the two teams consist of students from the Art Institute.

A first place will be awarded, but there will be no monetary prize. Last year H. Turk, '29, and A. Crizovsky, '29, received a First and Second Mention respectively. The problem then consisted of designing and making a model of the "Interior of a Salon on the Largest Ship Afloat." The contest was won by Euston of Yale, a finalist in the 21st Paris Prize Competition.

The registrar of the University of Washington reports that 83 per cent of the men attending that institution are working their way through college or at least paying part of their own expenses.

## PROF. EARL REED HEADS COMMITTEE ON WAR MEMORIAL

### Designs To Be Exhibited In Art Galleries Elsewhere

#### SHOW RISING INTEREST

The War Memorial Designs which have been exhibited at the Art Institute and Burnham Library for the past month will now be taken on tour to art galleries and architectural leagues in New York, Indianapolis, St. Louis and other cities.

Professor Earl H. Reed, Jr., technical adviser to the war memorial committee, states that "not in years has an architectural competition brought out so much notable and noble effort." The designs show a heartening tendency to express today rather than antiquity.

The estimates of the cost of putting into granite and marble of the prize winning design of the firm of Gugler and Bailey of New York City range from two million to five million dollars. The raising of the funds will be by veterans of the world war and by the community as a whole.

The most notable of the 114 designs submitted will be ultimately issued in book form "because" as the eminent architect John Mead Howells put it, "they are a vital contribution to American architecture."

The island on which the memorial will be erected will lie four hundred feet from the shore line of Grant Park and directly opposite the Buckingham fountain.

The island will be connected to Grant Park by means of causeways which may for convenience be described as extensions of Van Buren and Harrison streets. They will lead to the side of the memorial facing the east.

The columns or piers of the Chicago memorial will be 96 feet high. The total height of the structure from the water level will be the equivalent of an 18-story office building. The piers will be surrounded by two rows of trees.

## FLASK AND BEAKER GIVES BANQUET AT UNION LEAGUE CLUB

(Continued from page 1)

ciated, or the engineers are not well enough organized," he said, "the engineering profession is one of the poorest paying professions today. Therefore, use engineering only as a stepping stone to greater things. After graduation, don't stop studying. Take up such courses as public speaking and political economy, and broaden your viewpoint and education if you want to get into the big money."

Dr. Raymond gave several instances of alumni and former students who had broadened their viewpoint, and had made good by doing so.

Professor McCormack then arose to answer some of Schommer's assertions. He said, "If the desire for money is what I have created in my students by my teaching, then I have failed in my purpose. If you men get jobs in which you are interested, make a fair salary, and are happy, I will term you successful. Success is not to be measured by the salary an individual can draw."

The toastmaster then announced that a card room was available and the most pretentious banquet ever given by the chemicals was a memory.

A male beauty contest will feature the University of Missouri campus in the near future, announces the "Missouri Student." Those in charge are not asking for entrants, but have appointed a secret committee of ten to hunt for the best looking men so that the modest ones will be given a chance for fame.

Oxford and Cambridge, both of which have university air squadrons, are planning a series of annual dual aeronautical contests.

## Prof. Richardson Verifies Theory by Experiments

At a meeting of the American Physical Society which was in session with the American Association for the Advancement of Science and Associated Societies, held in Des Moines, Iowa on December 31, Professor D. E. Richardson, instructor in the Electrical Engineering Department, gave a paper on "Resistance of an electrolytic conductor at various frequencies." The paper was a summary of Professor Richardson's thesis on "Experimental Verification of the Theoretical Skin-effect Equation, for an Electrolytic Conductor" which he prepared for his M. S. degree at the University of Chicago.

#### Resistance Varies With Frequency

The problem presented in the paper was that the resistance of a conductor, as defined by the ratio of electrical energy converted into heat and the square of the current, is a function of the frequency of the current because of the non-uniform current density throughout the cross-section of the conductor. Classical electrical theory offered an equation for this skin effect and this has been verified for metallic conductors for frequencies up to one megacycle. Professor Richardson,

## Will Inspect Terra Cotta Works Today

The Fire Protects and the Chemicals of the Junior Class will make an inspection trip through the Northwestern Terra Cotta Company this afternoon. Professor Bentley will be in charge.

C. M. Nelson, C. E., '26 returned to school Thursday for a short visit with the Civil Department. Nelson is now on the editorial staff of the Gillette Publishing Company, publishers of "Engineering and Contracting" and several other engineering periodicals.

Constantinople and Angora, Turkey, have just been connected by a telephone line.

son, using a calorimetric method, verified the equation for a particular case of electrolytic conduction (30% solution of H<sub>2</sub>SO<sub>4</sub> for frequencies up to eight megacycles (37 meters). The conclusion drawn up by Prof. Richardson was that the resistivity of this electrolytic conductor is independent of the frequency up to eight megacycles, since this assumption was made in the derivation of the equation. Measurements of the currents were made by comparing photometrically the intensities of two filaments, one carrying the high frequency currents, the other direct current.

## FRATERNITY NOTES

### BETA PSI

The annual Beta Psi Christmas dance held December 21st proved a huge success despite the bad weather. Several alumni were at the dance, the habit being too great to be away. Thursday January 16th following the meeting a smoker was held for the Alumni of the chapter who turned out in large numbers. Wm. Lange, E.E., who suffered an infected leg causing him to drop school spent Wednesday at the house.

### TRIANGLE

In starting off the new year's social activities, Triangle held a Radio Dance at the Chapter house on Friday January 17th.

The latest rage at the house is that of playing Pingpong. From sunrise to sunrise someone will be ping and ponging; really 'tis quite some game.

### THETA XI

Theta Xi announces the election of officers for next semester. The new officers are:

G. A. De Bolt, '31, President.  
W. A. Schirmer, '31, Secretary.  
W. E. Bauman, '32, Treasurer.  
P. Abramson, '32, Steward.  
K. D. Hansen, '32, House Mgr.

## A. I. Ch. E. Hear Talk on Heat Transfer

Last Tuesday, January 14th, the Armour Branch of the American Institute of Chemical Engineers heard a very interesting talk on "Heat Transfer" by Mr. E. W. Thiele of the Standard Oil Company, Whiting, Indiana. The scheduled speaker Mr. Walter G. Whitman, was unable to appear, so he sent his assistant, Mr. Thiele. After the lecture, the students brought up problems which they had encountered in their investigations on the subject and solutions were offered by Mr. Thiele. The meeting was characterized by its good attendance.

Pi Tau Sigma, honorary mechanical fraternity, held an election of officers Monday, Jan. 13 with the following results, H. Faulstich, Pres.; R. Johnston, Vice-Pres.; C. Voigtsch, Treas.; C. Link, Corr. Secty.; F. Strasseling, Rec. Secty.

### RHO DELTA RHO

Rho Delta Rho announces a sleighing party to be held at Palos Park, January 25.

### SIGMA KAPPA DELTA

Sigma Kappa Delta announces the pledging of Frank O'Connor, M.E., '31.

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