

MAKES PROPOSAL FOR LARGE FUND AS STUDENT AID

Million Dollar Plan Explained
by Gerard Swope '95 at
Alumni Council

BELIEVES IDEA NEEDED TO FINANCE EDUCATION

Advocates Raising of Tuition
To Equal Actual Cost
of Education

A proposal intended as a means of more fairly proportioning the cost of education to students was made by Gerard Swope '95, president of the General Electric Company, at the meeting of the Alumni Council Friday evening in Walker. He suggested that \$1,000,000 be raised as a fund from which students who needed to could borrow money to finance their education.

According to Mr. Swope, students do not at present pay the full cost of their tuition, part of it being made up from returns on endowment funds. His plan is to raise the tuition gradually until it is high enough to meet the actual cost of education. Then the proceeds from endowment could be used in the improvement of buildings and other educational facilities.

Lend to Needy Men from Fund
At present, the aid from endowment is equally received by all students, irrespective of their need for it. By the new plan, Mr. Swope showed that students who could afford to pay the actual cost of their education would do so, while men of ability who would otherwise be barred from college by the higher tuition would be able to borrow the funds needed to meet it from the \$1,000,000 fund, and could pay part of the cost of their education after their graduation.

"Why not," he said, "let those who can pay for it do so and those benefited pay when they can?"

All Colleges Need Plan
Action on Mr. Swope's plan was deferred, pending the necessary investigation to determine the facts in regard to the plan, and to decide upon the policies to govern the use of the fund. Mr. Swope said that he believed raising the money for the fund would be the easiest part of the proposition. In discussing the need for the proposal, Mr. Swope predicted that eventually all colleges will be forced to adopt some such means of financing their activities, or else it will become necessary for their expenses to be paid by the community.

PROFESSOR A. S. KINSEY LECTURES ON WELDING

Show Structure of Cast Iron by
Lantern Slides

An illustrated lecture under the auspices of the American Welding Society, was given Friday evening by Professor A. S. Kinsey, head of the department of Shop Practice at Stevens Institute of Technology, and Advisory Service Engineer of the Air Reduction Company, on the "Oxy-Acetylene Welding of Cast Iron" to an audience of about 40, mostly members of the Society. Professor Kinsey showed lantern slides explaining the structure of cast iron and movies of recently developed automatic welding and cutting machines in operation. The oxy-acetylene flame is used very successfully in welding of all kinds of cast iron from large wheels to locomotive cylinders.

The oxygraph, a machine which cuts patterns out of steel plate up to 15 inches in thickness, operating on the principle of a pantograph, was shown in operation and explained. Others were shown cutting gear teeth on large wheels. After the lecture Professor Kinsey answered questions pertaining to the subject.

The next lecture by the society will be on February 8. The subject is "Applications of High Carbon Welding Steel."

M. E. DEPARTMENT WILL CONDUCT GEAR TEST

At the request of the American Society of Mechanical Engineers the Mechanical Engineering Department of the Institute will soon begin an exhaustive test of gears. A special gear-testing machine has been designed by Wilfred Lewis of Philadelphia and the drawings of this machine are now at the Institute being examined. If they appear satisfactory the machine will be constructed, probably at the expense of the Mechanical Engineers' Society, and the tests inaugurated. They will be conducted by Professor Miller's staff.

T.C.A. SPONSOR OF PROHIBITION LAW CONFERENCE

T.C.A. Takes Responsibility
Refused by Institute
Committee

HARVARD TO BE HOST AT MOST OF MEETINGS

At a special meeting of their executive committee last Friday noon the T. C. A. voted to take charge of the New England Citizenship Conference after its recognition had been refused by the Institute Committee. This action was not made in opposition to the Committee but because the Committee did not, as the student governing body, wish to sponsor the Conference.

Prominent Speakers Obtained
Admiral Sims has been obtained as speaker for the student mass meeting to be held on January 20 at 3 o'clock. The Admiral is extremely interested in the movement and believes that the present start in New England will be the nucleus of a nation-wide organization among students. President W. H. P. Faunce of Brown will also be a speaker at the Conference, but will address the Saturday evening meeting for delegates only.

The purpose of the Conference is to create, strengthen and voice public opinion in New England for obedience to law and for stricter enforcement especially of the Eighteenth Amendment. This the leaders hope to accomplish by the crystallization of student sentiment throughout New England against the flagrant violations of the laws which are occurring every day.

All N. E. Colleges to be Represented
The Committee expects that every college in New England will be represented. The greater number in fact have already sent in the names of their respective delegates. Those men belonging to fraternities will be entertained by their local chapters and the rest will be divided equally between Technology and Harvard. All women representatives will be entertained by Ladcliffe.

Although it was originally planned to have all meetings at Technology the program has been changed lately so that only the meeting on Saturday is at the Institute. The rest will be at Harvard.

The schedule now reads: Saturday, January 19 at 6 o'clock, addresses by

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50-TON TANK ADDED TO ARMY EQUIPMENT

A 50-ton tank is the latest acquisition to the army equipment of the Military Science department. It is at present at the Watertown Arsenal and will be brought to the Institute as soon as the ground freezes enough so it will not cause excessive damage to the roads.

The tank was obtained by Prof. Miller, head of the Mechanical Engineering Department, and who was a colonel in the Ordnance Department during the war, from the Chief of Ordnance Williams, whom he visited while in Washington a short time ago.

With the addition of the tank the Military Science Department could present a formidable although somewhat varied train. The department has among its equipment a 3-inch anti-aircraft gun mounted on a White truck which was acquired recently from New Bedford, a 155-millimeter G. P. F. long gun tractor drawn, an 8-inch howitzer also tractor drawn, anti-aircraft machine guns, two engineer wrafts, and one 5-ton and one 10-ton tractor.

SHOW ANNOUNCES ITS LAST BALLET AND CHORUS CUT

Required Number of Seventeen
Men Each Is Left After
Last Selection

PICTURES TAKEN FOR PROGRAM YESTERDAY

Costumes Which Are Also Now
Complete Show Quite
a Variety

Final cuts have at last been made in the Tech Show chorus and ballet, reducing them to 17 members apiece. The men who have been retained are unusually good, according to the management, particularly R. W. Davy '27, who studied aesthetic dancing in Germany.

Yesterday pictures were taken of the cast and chorus in costume, both group pictures and pictures of one and two members separately. The men of the chorus appeared in ordinary Tuxedo suits, the "girls" wore costumes representing all stratas of society, from the Bowery to Riverside Drive.

Rip Tramp's Costume
The costumes of the cast naturally showed more variety. J. D. Cochrane G. was dressed in an Indian Rajah costume, "Minerva Somerville" (C. H. Topping '26) appeared in an exclusive white dress, while her mother (W. F. McCornack '26) was a charming, but rather immodest old lady. D. P. Jeppe '25 plays the part of a tramp, appearing in white trousers and a white shirt. In order to increase his resemblance to the real thing, the other members of the cast proceeded to reduce his costume to tatters.

The following will be the men of the chorus: B. R. Freudenthal '25, Alfred Kullman '25, L. M. Rice G. T. F. Russell '27, D. M. Schoenfeld '24, W. J. Squire '25, H. E. Whitaker '24, S. M. Zerkowsky '25, and R. G. Kales '27, substitute.

The "ladies" of the chorus are T. M. Nevin '24, W. S. Graves '26, S. F. Elliot '27, E. W. Eddy '26, E. D. Cahill '25, P. J. Lamouereux '24, G. L. Marshall '26, Lee McCame '27, R. C. Jackson '25, and S. G. Eskin '26, substitute.

The ballet is as follows: P. K. Bates '24, R. L. Briggs '26, Nathan Cohen '27, R. W. Davy '27, C. O. Duceval Jr. '24, W. E. Edwards '26, L. A. Foster '26, C. S. Hoffman Jr. '26, F. A. Hooper '24, Paul Kusnitz '24, H. J. Lehman '24, J. W. Loubriel '24, J. T. McCoy '24, D. W. Mordock '24, A. C. Wallace '26, C. P. Worthington '25, I. H. Stern '24.

AERO SOCIETY PLANS SMOKER NEXT FRIDAY

New Offer by Government To
Be Described There

There will be a smoker held by the Aeronautical Engineering Society on Friday, January 18, in room 5-330 at 8 o'clock. At the smoker two propositions now offered to Technology men to learn aviation under the government will be described by officers of the Air Service.

Lieutenant Doolittle who has held the record for transcontinental flight for several years will deliver a talk on his experiences as a test pilot for the government.

Lieutenant Pond of the United States Navy Flying Corps will speak on his varied experiences in aviation and will also talk on a recent offer made by the Navy to those wishing training by the Naval Aviation. Although the details of the situation are not as yet fully known, Lieutenant Pond wishes for at least 20 men to join the service. The base is located at Squantum, Mass.

Captain Wright, the Air Service Officer at Technology, will give a description of the course of training for students interested in becoming Army pilots. This course is offered to all students by the Air Service Unit of the Advanced R. O. T. C. and has been in operation for several years. The unit this year is larger than ever before.

JAPANESE PROFESSOR GUEST OF DR. STRATTON

Professor V. Tanakadati, head of the Physics department of the University of Tokyo and an internationally known figure in aviation circles, was a guest of President Stratton last Friday. He was shown the wind tunnels and other aviation equipment by Professor H. M. Goodwin and the photo-elastic laboratory by Professor Paul Heymans.

Dr. Stratton has known Professor Tanakadati for 20 years and was on the International Bureau of Weights and Measures with him when he was the representative for Japan.

MANY CHEMISTS ATTEND MEETING AT TECHNOLOGY

Interesting Information Given
in Papers Presented
by Scientists

LIVELY DISCUSSION FOLLOWS ADDRESS

Room 5-330 was filled to capacity last Saturday afternoon and evening by the crowd which attended the symposium on Catalysis under the auspices of the Connecticut Valley, New Haven, Rhode Island and Northeastern Sections of the American Chemical Society. The afternoon session was slightly better attended than the evening meeting due to the fact that there were many student members present.

The afternoon meeting, which began at two o'clock, was featured by addresses on catalysis by college professors. Professor W. D. Bancroft of Cornell opened the session by a paper on "Photo-Chemistry and Catalysis." The subject of "Negative Catalysis" was covered by Professor H. S. Taylor of Princeton who presented some interesting bits of information on that subject.

Professor Norris Speaks
The other speaker of this session was Professor J. F. Norris of Technology who spoke on "New Catalytic Effects of Zinc Chloride and Aluminum Chloride" pointing out the possibility of these two compounds as industrial catalyzers. The meeting adjourned at about six o'clock being followed by a dinner in the north hall of Walker Memorial.

Dr. A. T. Larsen of the Nitrogen Fixation Laboratory opened the evening session by reading a paper on "Ammonia Catalysis" in which he described a series of experiments to determine the catalytic activities of iron, cobalt, nickel, tungsten and molybdenum in the synthesis of ammonia.

Dr. Larsen also showed the value of silicon, zirconium, cerium and thorium as commercial catalyzers, pointing out that they will each produce at least four percent of ammonia. The method which was followed in obtaining the pure metals is particularly interesting. In most cases they were obtained by

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CHILDREN ENTERTAIN AT FIRST DORM DANCE

Toe Dance by Pupils of Miss
Corbett Feature Affair

Two pupils of Miss Mary Corbett of Somerville were the chief entertainers at the first Dorm dance of the second term, held in Walker Memorial last Friday evening. They were children of perhaps six or eight years, but they showed no hesitancy in appearing before the unusually large crowd which attended the dance.

About the middle of the ninth dance the music suddenly stopped, the floor was quickly cleared, all the lights extinguished save a spot light, and the two little girls appeared, dressed in colonial costume. They executed a toe dance; then the older one did a woodland dance, and finally the little one appeared again and sang "Georgette." She received a storm of applause, but she would not come back for an encore.

Just before the end it became all but impossible to continue dancing because of the broken balloons which strewed the floor, making a careless step extremely risky. Billy Lossez' 12-piece orchestra furnished the music. The patronesses were Mrs. R. T. Bigelow, Mrs. W. M. Ross, and Mrs. H. S. Ford.

COACH HAINES TO ADDRESS STUDENT BODY AT MEETING

New Coach of Crew Came from
Harvard—Widely Known
in Rowing Circles

PRESIDENT STRATTON ALSO TO SPEAK TODAY

Mass Meeting Called at 5
O'clock This After-
noon in 5-330

Coach Haines and President Stratton are expecting to face a record crowd when they speak at the mass meeting to introduce the famous rowing mentor to the student body. The securing of Coach Haines for the Technology crews is considered by Dr. Rowe and other members of the Advisory Council as the greatest step forward in Technology athletics since the procuring of a regular track coach a number of years ago. The meeting, which is to take place this afternoon at 5 o'clock in room 5-330, will include the members of the student body and is in no way confined to those who plan on a career in crew.

"Bill" Haines has already done much towards the furtherance of Technology rowing in the few weeks since he has consented to come here. Much has been accomplished in the way of standardization of the crew equipment at the boathouse. The new machines, sixteen of them, are on their way from the factory and should arrive today or tomorrow. The coach can be seen every afternoon up at the boathouse helping the men in their work, coaching the new men that have turned out and making friends everywhere.

President Stratton on Hand

This is the first time that President Stratton has appeared at an athletic meeting at Technology. While a firm believer in the benefits to be derived from sports and other Institute activities, as his address at the recent alumni banquet showed, this is his first opportunity to get behind a branch of athletics and put his shoulder to the wheel.

Dr. W. A. Rowe '01, who was one of the men instrumental in obtaining Coach Haines, will preside at the meeting. Coaches Deilenbaugh and Stevens, who had charge of the eights last season, will remain under Haines and assist him this winter and spring.

Coach Haines has not yet outlined the

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STUDENTS NOT GIVING TO HARDING MEMORIAL

Chinese Students Donate \$3.00—
Rest of Students \$.75

Contributions to the Harding Memorial Fund have not been coming in as fast as was hoped and the result is that the total sum up to yesterday afternoon was \$3.75, of which \$3.00 was due to the combined efforts of some of the Chinese students.

The Harding Memorial Association, which is an organization for "Commemorating the noble character and high achievements of Warren Gamaliel Harding, Twenty-eighth President of the United States," was incorporated last October and has been working ever since to raise money for some permanent memorial to the late President.

Pamphlets and certificates stating that contributors have given money for the above purpose are at the Bursar's Office where the contributions are being received. Any amount is accepted and the person giving the money is presented with a certificate bearing his name and a picture of President Harding with the dates of his birth and decease and a short history of his life.

CALENDAR

Monday, Jan. 14
5:00—Coach Haines mass meeting, room 5-330.
Wednesday, January 16
3:00—Democratic Club meeting, room 5-330.
Friday, January 18
8:00—Faculty Club reception, entire building, Walker.
Saturday, January 19
3:00—Walker Memorial Committee tea dance, main hall, Walker.