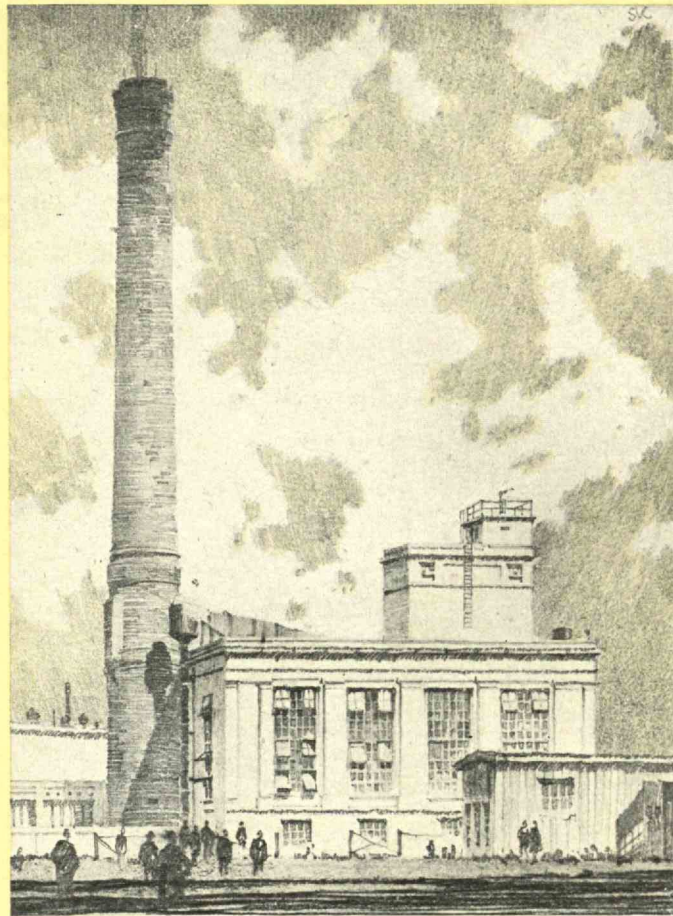
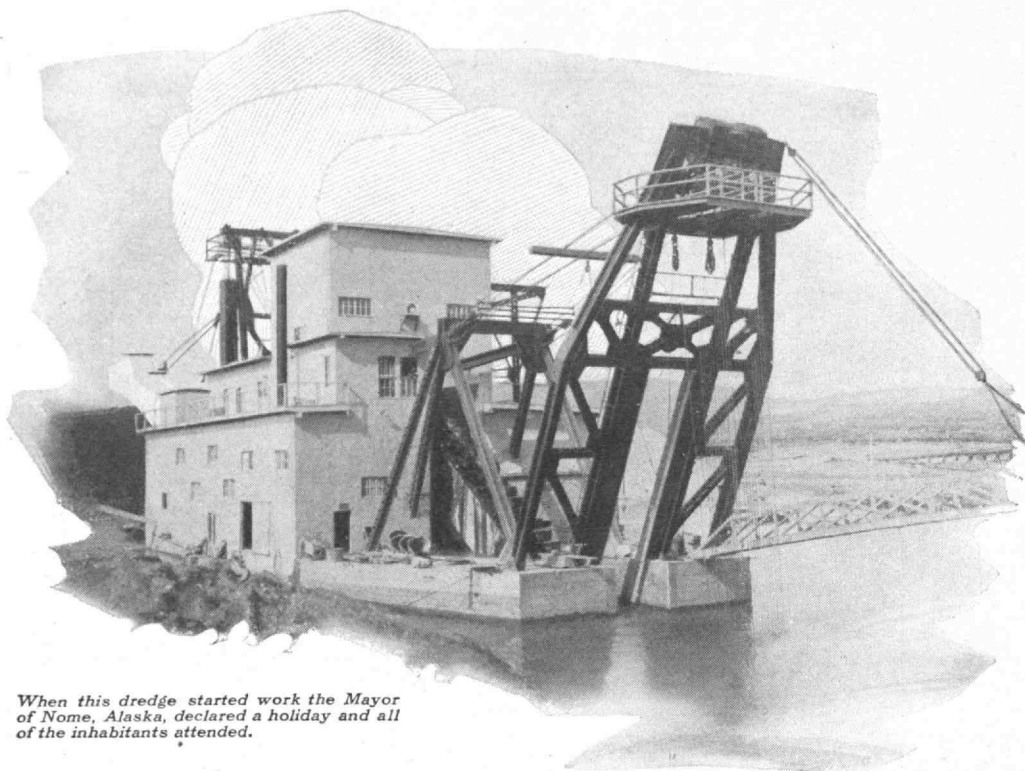


THE TECHNOLOGY REVIEW



JANUARY
1 9 2 6

RELATING TO THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY



When this dredge started work the Mayor of Nome, Alaska, declared a holiday and all of the inhabitants attended.

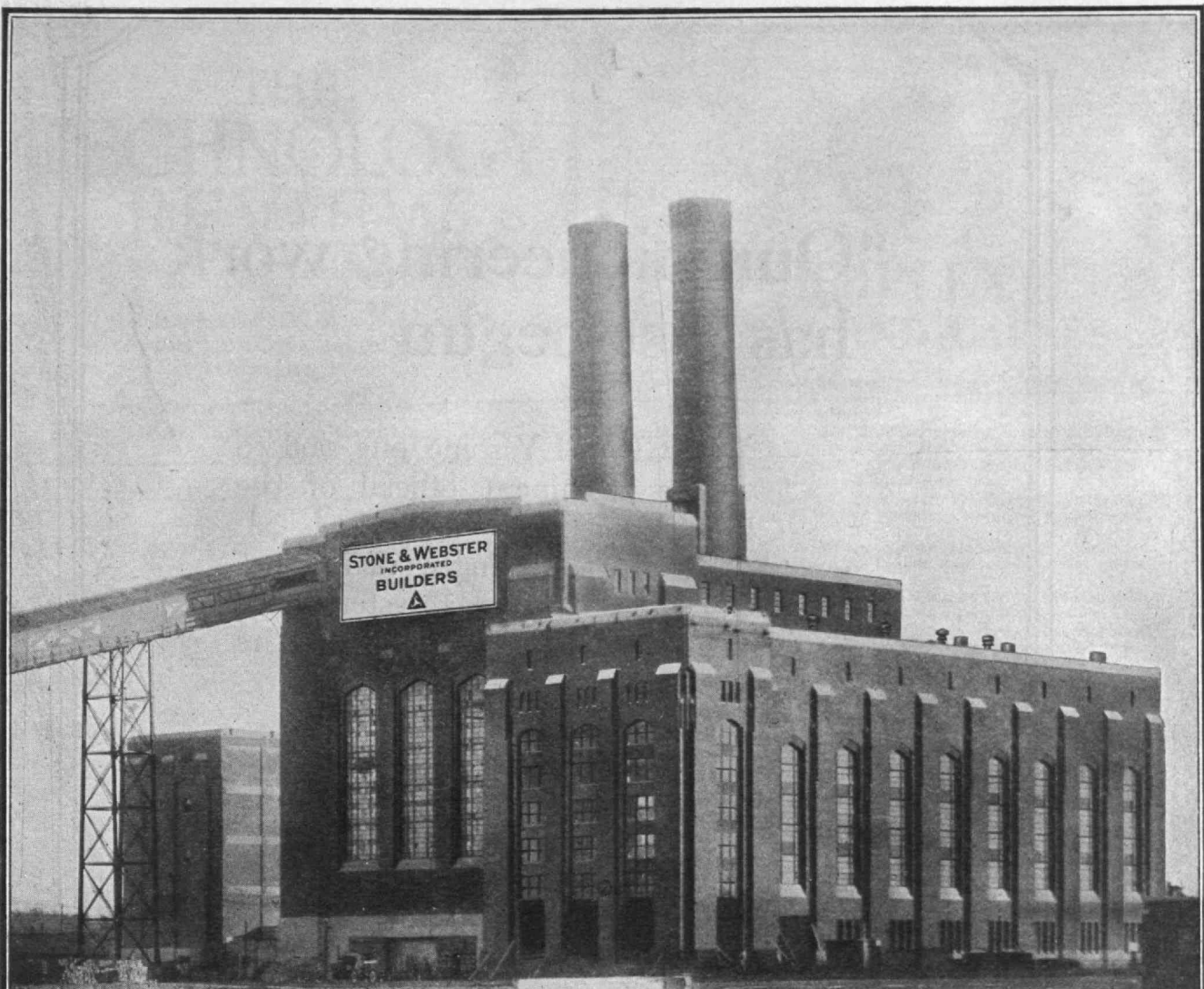
The "Forty-Niner" of '26



General Electric supplied all electrical equipment for two such dredges now operating at Nome. A Diesel-electric power plant, four miles distant, furnishes the energy for a total of 592 h.p. in electric motors for each dredge. To cope with winter conditions G-E cable was chosen to carry the power to the dredges.

Massive electric dredges now mine Alaskan gold. At almost incredible temperatures they dig 60 feet deep and scoop out 200,000 cubic yards a month. From the Arctic regions to the Equator, G-E equipment is called upon to perform many hard tasks once done by hand but now better done by electricity.

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makes a neighborhood of the
nation."

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"Our pioneering work has just
begun. Each day brings new prob-
lems, new discoveries, new devel-
opments, all calling for broader-
visioned handling on a larger scale
than ever before. If I were a young
man again in years, I would choose
the telephone business for my life
work even more quickly than I
did before."

*Published in
the interest of Elec-
trical Development by
an Institution that will
be helped by what-
ever helps the
Industry.*

Published for the Communication Industry by

Western Electric Company

Makers of the Nation's Telephones

*One of a series of announcements appearing in
student publications and aimed to interpret to under-
graduates their present and future opportunities.*

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RELATING TO THE MASSACHUSETTS
INSTITUTE OF TECHNOLOGY

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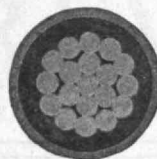
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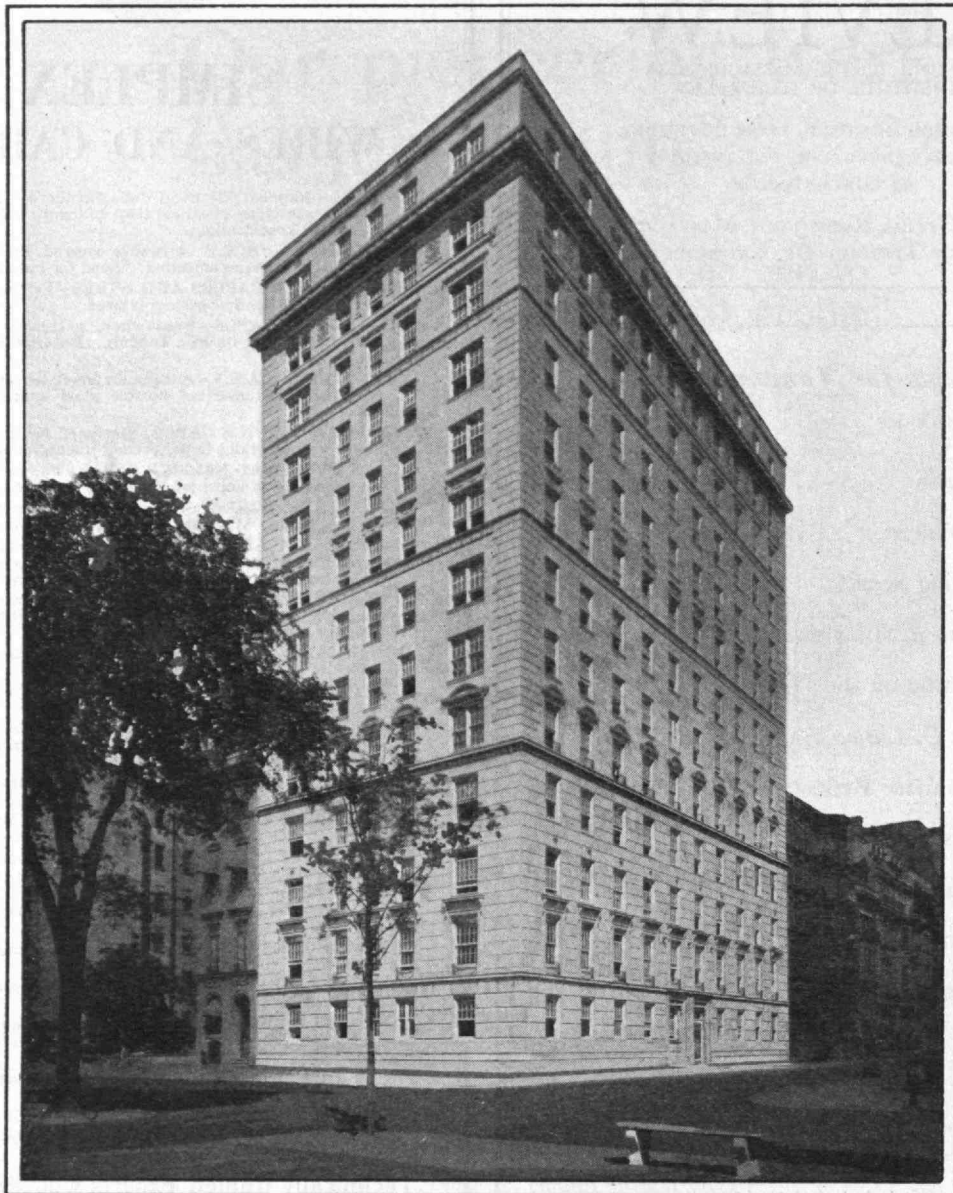
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LOS ANGELES

The TECHNOLOGY REVIEW

[RELATING TO THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY]

VOLUME XXVIII

JANUARY, 1926

NUMBER 3

The Past Month

ALTHOUGH no subjects have yet been announced, the list of speakers for the coming Annual Dinner of the Alumni Association to be held in the great dining hall of the Boston Chamber of Commerce Building in Boston on January 9, gives ample guarantee of an evening of great interest. In addition to Dr. Stratton, two men of national prominence will figure in the evening. Dwight W. Morrow, of J. P. Morgan and Company, recently much in the public notice by reason of his chairmanship of President Coolidge's aircraft investigation board, is one. Dr. Charles H. Herty, of New York, President of the Synthetic Organic Chemical Manufacturers' Association, and a man who has stood high in the councils of the Institute's Department of Chemical Engineering, is the other. Definite announcement is at the moment impossible, for the usual reasons of state, but it is hoped that to this list will be added the presence of the Honorable Alvin T. Fuller, Governor of the Commonwealth.

Other features of the evening remain substantially as reported in the December Review. The organ of the Chamber of Commerce Building will be relied upon for the musical program and the Zizz film taken at the Reunion of last June will be presented, despite rumor and counter-rumor that it would not eventually find a place on the program.

Charles Hayden, '90, President of the Alumni Association, will preside.

HARD upon the heels of the Boston dinner comes another for the well-fed Technology man. This second one, to be

held in New York in the Waldorf-Astoria ballroom on January 19, will follow and enlarge upon the superlative precedent of the radio dinner, *ibid.*, in March 1924, and is to be known as the "Phantom Dinner."

As in 1924, the General Electric Company, the Westinghouse Electric and Manufacturing Company, and the Radio Corporation of America will combine their force, prestige and thermionic tubes to help Technology spread its tidings over half the globe, or a trifle more. The evening is planned throughout, however, on a more ambitious scale, and there is also this difference: of the evening's notable speakers, the audience will observe but a few, since science makes necessary that only a minority

be present in the flesh at the Waldorf-Astoria. New York will serve as the clearing house for every event of the evening, but Dr. Stratton, for example, may sit at home in his armchair, and talk to half the world — his voice being carried not only to remoter points, but, amplified by half a dozen loud speakers, to the audience in the Waldorf 275 miles away.

General James G. Harbord, President of the Radio Corporation, will act as master of ceremonies for the evening. From Washington it is expected that President Coolidge, Vice-President Dawes, Secretary of Commerce Hoover will speak; from Boston, President Stratton; from Schenectady, Owen D. Young. Musical and other entertainment will likewise come from afar. This year, the broadcasting companies will spurn a land wire. An even dozen of stations will co-operate in the broadcasting, but not so much as a thread will join them. In this country Boston, Springfield, Schenectady, New York,



From a wood-cut by Kenneth Reid, '18

CHARLES HAYDEN, '90

Who, as President of the Alumni Association, presides at the annual dinner of the Alumni Association this month

Canton, Washington, Pittsburgh, Chicago, Hastings, Denver and Oakland will link together. In England, the station at Chelmsford will rebroadcast the complete program.

Quite obviously, the cue for the local Technology clubs scattered throughout the country is a smoker or a dinner on the evening, at which will be received the program as presented in New York. At the larger dinners, the Radio Corporation will install the "public address system" of amplification, and at the smaller ones provide receiving sets and loud speakers.

Says the official announcement:

"The active participation of every Tech man is expected. Telegrams will be requested to be sent during the evening so that an announcement may be made as to the number of M. I. T. Alumni listening in throughout the country.

"A National Committee has been appointed to supervise the general arrangements. Local committees will have charge of the programs in the various centers where the Alumni gather. During the coming year it is expected that The Technology Clubs Associated will provide a permanent organization to direct the arrangements for future All-Technology Radio Dinners."

THE meeting of the Alumni Council held in Walker Memorial on November 30, proved to be a stimulating affair. The gathering was quadruple, being jointly of the Council, the Faculty Club and the Technology branches of the Society for the Promo-

"The Most Pressing Need of Technology"

A Statement of Vital Importance from the President of the Alumni Association

AT a joint meeting of the Executive Committee of the Corporation and the Executive Committee of the Alumni Association, it was unanimously agreed that additional dormitories are the most pressing need of Technology.

One of the fundamental duties of a real college is adequately to house its students. The question asked by parents today when sending their boy to college is: "Where and how will he live?" With dormitories for but 300 men we are unable to answer this question satisfactorily, and as a result many good students go elsewhere.

Land is available in the immediate proximity of Walker Memorial for the erection of accommodations of 400 additional men, and through our power plant and Walker Memorial we can properly provide heat, light, and subsistence for such a number. These additional accommodations would wonderfully improve the situation and can be erected at a minimum expense. Plans call for 10 units of 40 men each, each unit to cost approximately \$100,000 completed.

In 1923 the Class of '93 contributed two units. It has been suggested that other classes would be glad to form committees and donate one or more units each. In the case of the younger classes, or of some of the older classes where the number of graduates is small, it is suggested that two classes might properly get together and donate one jointly. Each unit would bear a tablet carrying the name of the class or classes donating it.

Technology needs the dormitories. What will the classes do to help?

CHARLES HAYDEN, '90
President

December 8, 1925.

tion of Engineering Education and the American Association of University Professors. After a short business meeting of the Council, Professor Samuel C. Prescott, '94, Vice-President of the Alumni Association, turned the meeting over to Professor Harry W. Tyler, '84, President of the Faculty Club, and national Secretary of the Association of University Professors. Thereafter the evening went by strict program. William E. Wickenden, one-time Associate Professor of Electrical Engineering at the Institute and now the director of the international survey of engineering education being conducted by the S. P. E. E., delivered an address on "Technical and General Training of the European Engineer," which will be found elsewhere in this issue. Professor William Emerson, Head of the Department of Architecture, spoke on "The Importance of the Humanities in Technical Education" and James P. Munroe, '82, concluded the program with a brief note on "The Ideals of Rogers and of Walker."

More than usual interest attached to the "Salad Oration" which preceded the set program of this Council Meeting. T. C. Desmond, '09, President of the Technology Club of New York, came from the home grounds to Boston to outline a plan for the creation of a national Technology center in New York. Unlike some previous proposals, Mr. Desmond's begins with the proposition that it is not New York's place to ask the rest of the country for money to build a New York clubhouse, but that it is rather New York's place

to become so important a Technology center that a new building to house it will become an inevitable matter of course. To start the ball rolling, Mr. Desmond would immediately transfer the activities of the Secretary-Treasurer and the Alumni Office to New York, using the present Technology Club as a center. Some departments of *The Review* would follow. Meetings, probably alternate, of the Council and the Corporation Executive Committee would be held there.

For the discussion of this topic, Vice-President Prescott announced, a special meeting of the Council would be held on December 21.

THERE still are a few who shudder and snort at the idea of interpreting science in lay terms, but these are fast disappearing in the face of constantly increasing interest in the non-technical public for a better understanding of things scientific. Again, as in years past, the Society of Arts has made a happy choice of subjects for the season's Popular Science Lectures.

The success of these lectures may be attributed in no small degree to this wise choice of subjects and the manner of their presentation. They add to the store of knowledge among those in professions other than engineering, and for the school boy, often puzzled in his choice of a career, it is not too much to believe that lectures which reveal the great opportunities in science and engineering often have been a deciding factor in the final decision.

The first lecture, given for students of high and secondary schools on December 11 and 12, and for the general public on the following Sunday, was delivered by Professor James R. Jack, Head of the Department of Naval Architecture and Marine Engineering, who discussed submarines, how they are designed, built, and navigated. The subject is one of which the public knows little and Professor Jack illustrated his lecture with working models, instruments and slides, explaining the development of the submersible from the time it is designed until the finished craft puts to sea for tests.

On January 15, 16, and 17, Professor Edward L. Bowles, S.M., '22, will lecture on "Recent Developments in Radio," a subject sure to draw a large audience from the ranks of its enthusiasts.

"Small Beginnings in Science and Their Epoch-Making Consequences" will be Professor William S. Franklin's subject on February 12, 13, and 14, and Professor Samuel C. Prescott, '94, will discuss "The World's Food Supply: Its Sources and Preservation" on March 12, 13, and 14. Two lectures on each subject are given entirely for students from high schools and secondary schools from various sections of New England. The general public is admitted to the third.

SIX hours after the signing of the Locarno Treaty and collateral pacts in the Victorian reception room of the Foreign Office in London on December 2 the members of the Faculty Club at luncheon in Walker Memorial listened to some first-hand information about the European situation from Dr. James Clerk Maxwell Garnett, C.B.E., one-time Principal and Dean of the faculty of the College of Technology in the

University of Manchester. Dr. Garnett, who is at present executive secretary of the League of Nations Union in Great Britain with over 2000 branches and a membership of nearly a half a million, spoke concisely, cogently, to the point. He expressed confidence in the coming of a warless world, urged as preparation for it need of repentance, sense of world citizenship, widened patriotism, faith.

"The great lesson of the Sixth Assembly," said he, "is that the League has come to stay and, now that Germany has been added, will go on successfully in the future. It is no longer possible to manage human affairs with independent sovereign governments. For nearly 100 years before the war there were thirty-three public organizations through which the governments were able to do those things which, had they been acting independently, they could not have accomplished. It is a fact that the League has grown more out of its positive work of organizing peace than out of its negative work in preventing war. . . . Where only three per cent of the countries of Europe were formerly linked up with the gold standard, seventy per cent are linked up now. It means that the financial reconstruction of Europe is well on its way. . . ."

"Both Locarno and Geneva show that an enlightened public opinion is necessary even for treaty-making purposes. The truth is that any great rapid change in human institutions can only be effected by a two-fold process. You have to effect an external change in the rules and laws of society, and an internal change in the



THOMAS C. DESMOND, '09

© Ira Hill

President of the Technology Club of New York, and proposer, at the special meeting of the Alumni Council held on December 21, of a plan to create a national Technology headquarters in New York City

minds of men. If you make an external change only, whether to get rid of alcoholic liquors or to abolish war, you are in danger of getting laws that cannot be enforced and treaties that are only scraps of paper."

MEMBERS of the Women's Association of Technology paid tribute to the memory of Ellen H. Richards, '73, first woman graduate of the Institute, and for many years an instructor in sanitary chemistry, who died in 1911.

The meeting was held on Mrs. Richards' birthday, December 4, and several of her students as well as members of the Faculty spoke of her work in the years in which she won for herself far-reaching fame.

Miss Eleanor Manning, '06, President of the Technology Women's Association, introduced Miss Frances Stern, '13, who as presiding officer announced that plans for erecting a tablet to the memory of Mrs. Richards are under consideration. The tablet will probably be dedicated on Mrs. Richards' birthday next year.

Professor Samuel C. Prescott, '94, Head of the Department of Biology and Public Health, told members of the association of Mrs. Richards' work. He said she was one of the most wonderful women America has produced, and a scientist who inspired men and women to great achievements.

FRANK A. SCOTT, President of the Warner & Swasey Company, Aldred lecturer at the Institute on November 16, gave an enlightening answer to one of the most interesting of all questions asked by engineering students—"Has the Average Engineer an Opportunity?" His answer was emphatically in the affirmative, but he warned the men who listened that the engineer of today must be willing to work. He advised the seniors to do the job that is before them and to do it at once.

BECAUSE of the recent shower of meteorites in New England a series of four lectures on the distribution, composition, and origin, as well as the mineralogy and structure of meteorites, by Dr. George P. Merrill, Curator of the United States National Museum, was most timely. The lectures were given on December 8, 9, 10, and 11, under the auspices of the Department of Mining, Metallurgy and Geology.

Dr. Merrill is a graduate of the University of Maine, from which he holds also a master's and a doctor's degree. He is a member of the Geological Society of America.

WILLIAM HENRY LINCOLN, a life member of the Corporation since 1895, former Boston shipping merchant and a director in numerous financial institutions, died at his home in Brookline on December 4.

Mr. Lincoln entered his father's shipping firm after graduating from the Chauncey Hall School and eventually became a partner in the organization. He was President of the Boston Chamber of Commerce for four years and President of the New England Ship Owners' Association.

During the thirty years from the time of his election as a life member of the Corporation until a short time before his death he took an active interest in affairs of the Institute. He was also a trustee of the Episcopal Theological School in Cambridge and of Wellesley College.

MAJOR-GENERAL Harry L. Rogers, '89, from 1916 until July, 1918, Quartermaster-General of the American Expeditionary Forces in France and then Quartermaster-General of the United States Army, died in New York, December 12, after a long illness.

He was appointed from civil life May 2, 1898, as a major and paymaster during the Spanish-American War by President McKinley. He was promoted to be a lieutenant-colonel in 1907 and to assistant paymaster-general, with the rank of colonel, two years later. His promotion to Quartermaster-General during the World War by President Wilson caused much surprise and was not confirmed until after some delay in the Senate.

General Rogers served under Funston in the Vera Cruz expedition into Mexico in April, 1914, being in charge of supplies. Pershing took him in a similar capacity with the punitive expedition after Villa in 1916 and the following year to France.

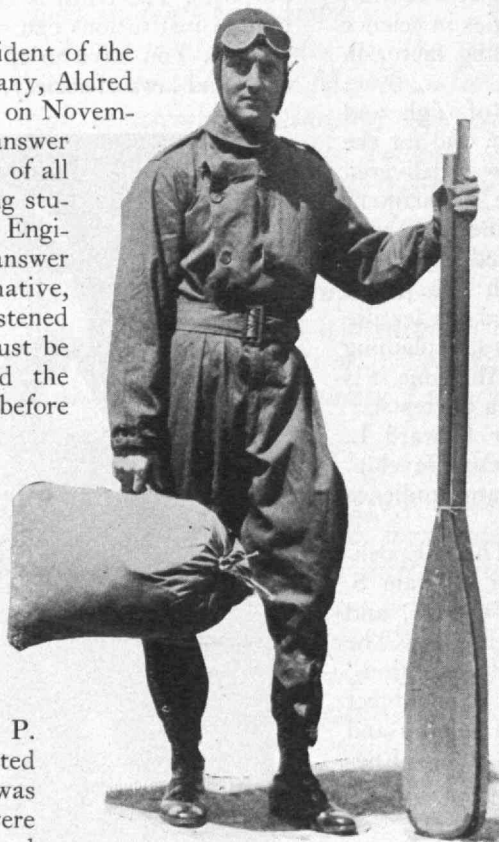
His early military training was received in the Michigan Military Academy from which he was graduated in 1884. He entered the Institute one year later.

In addition to his service in Mexico and with the A. E. F. he saw military duty in Porto Rico in 1898 and in the Philippines in 1910.

"WHY doesn't Technology get more publicity?" asked H. H. Young, '91, at the 93d meeting of the Alumni Council three years ago last month. There being no ready answer his question precipitated a near riot. Nine other members tried to speak

at once and the net result was that the 94th meeting heard advice on the problem from a Harvard man.

In December, 1925, an editorial writer in *The Tech*



LIEUT.-COM. RICHARD BYRD

The commander of the planes with the MacMillan polar expedition of last summer was a speaker at a Faculty Club meeting on December 21