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HOLD PROP HOP
 Cast of Tech Show Will Give Vaudeville Acts

Uniforms or civies will be equally "comme il faut" at the Aeronautical Engineering Society dance in Walker Memorial tonight. Only five tickets to the dance remain to be sold.
 The dancing and music will begin promptly at 8.15 o'clock. Frank Gage's orchestra has been engaged to furnish the music. Vaudeville acts by Tech Show celebrities, the award of substantial prizes for the prize dance, the tenth on the program, and the presence of an airplane are the attractions of the evening.
 Contrary to rumors, the latter feature is assured, the plane having arrived from the Curtiss Company's Bedford field. Dean Burton, Professor and Mrs. Dewey, Professor and Mrs. Croissant, and Professor and Mrs. Bigelow will act as patrons and patronesses.
 The dance programs have been withheld because the committee wishes them to be a surprise.

W. R. L. EMMET OF G. E. CO
 ADDRESSES E. E. SEMINAR
 Talks on Turbines and New Method for Making Steam

W. R. L. Emmet of the General Electric Co. and winner of this year's Edison Medal of the A. I. E. E. for his contributions to the development of the electrical propulsion of ships, was the speaker at last Tuesday's electrical engineering seminar.

Every one is being built by the United States at the present time is electrically propelled. The prime movers for the generation of the current are invariably steam turbines. This mechanism was the main topic of Mr. Emmet's talk.

He began by telling how reciprocating engines had reached their highest degree of efficiency by the year 1900. New and better methods of obtaining power were being looked for at this time and Mr. Emmet immediately became interested in the steam turbine. Previous to this time he had been exclusively an electrical man. The first turbines to be used to any large extent were those built by the General Electrical Company. This firm found a much greater degree of efficiency in the turbines than in the older reciprocating engines. They were immensely pleased with the success of the operation of them.

Talks on Mercury Operated Turbine
 Mr. Emmet is now experimenting on new and more efficient methods of obtaining steam. His most successful plan now depends upon the high point of vaporization mercury. The mercury is vaporized and passed into a condenser making steam. He claims this is very efficient, getting as much as 1050 kw. from the same amount of coal which previously produced only 600 kw. It is understood that the only thing mercury has to do with this turbine is the use of it as a heat conveyor. The boiling point of mercury is about 650 degrees Fahrenheit and when condensed makes a large amount of steam. He is making power from coal at the same cost as can be made from oil and is only looking for some practical market. He points out these ad-

vantages for his scheme: (1) one third the boiler space is needed; (2) only 20 to 30 degrees variation in temperature; and (3) no valves are needed for the boiler. Mr. Emmet thinks that this scheme will soon replace the ordinary method.

ECH ENGINEERING NEWS INCREASES SIZE OF ISSUE

May Number Contains Many Short Articles on Varied Subjects

The fourth issue of the Tech Engineering News will shortly make its appearance greatly increased in size. It will contain 24 pages instead of the usual 16. In this number the short article will predominate, and there will be a large mixture of newsy articles covering a varied number of subjects. Several letters have been sent to large concerns headed by Technology graduates concerning opportunities for employment for men who will graduate from the Institute, and a few of the replies will be published.

The list of articles which will appear in the issue is as follows: The Proposed Boston to Washington Super Power Line, by N. C. Carver; The Next Step in Industrial Management, by E. H. Schell; The Harvard Engineering School; The Modern Manufacture of Rope, by H. F. Hedburg; Hog Island Launching Methods, by William Fortune, and The Production of Synthetic Nitric Acid in Germany During the War, by J. F. Norris.

T. E. N. Monday



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