

PROF. HANEY SPEAKS ABOUT POWER PLANTS

Lectures to Freshman Engineers on Phases of Electrical Problems.

Power engineering, power generation, power plant design, and power transmission—was the subject of Prof. J. W. Haney's talk to freshmen engineers Monday at 5 o'clock in M. E. 206. He emphasized the importance of importance of proper analysis, application of theory, modification for practical reasons, and selection of equipment in designing a power plant. The use of which the power is to be put and the location of the equipment within the plant were other important considerations that he mentioned.

"In a boiler plant, the heat from the fuel transforms the water to the steam that operates the steam engines which in turn actuate the electric generators," Professor Haney pointed out. "So the selection of the fuel to be used is of great importance. For instance, it might be cheaper to use cheap coal, if the plant is located near mines, with more wasteful and consequently less expensive equipment than to buy good machinery and high grade coal. If the plant is far from mines, it might be best to buy the best equipment manufactured, since the coal obtainable would probably be expensive and of a good grade.

"The general purpose of a power plant will have quite an effect on the selection of equipment," he went on. "If a twenty-four hour current is being supplied it would be necessary to design an entirely different plant from that which would do for a factory in operation only eight hours of the day.

"Equipment should be so located that a shutdown is almost impossible, and especially so when the current is sold for public consumption. This is not so important, of course, in purely industrial plants.

Professor Haney then showed that it is important that the probable future growth of a community be taken into account in designing municipal plants. Slides were then shown, illustrating different types of equipment and installation and different methods of handling fuel and ash.

Professor Haney declared that an engineer must be a true expert.

"A lawyer makes his charge whether he wins or loses your case. A doctor collects if he cures you or kills you," he insisted, "but an engineer cannot make one mis-step. Many prominent men have made one mis-step early in their careers as engineers, and they have never been able to fully make up the loss."

YALE MAN EXPLAINS SHOOTING.

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should be especially encouraged and that is the official recognition of the sport by the University Athletic Association and the awarding of the insignia to members of the team. I have had so many letters asking for the basis on which we are awarded letters by our Athletic association that I shall try to clear the matter up here. It had been till last year the management's policy to award the rYt to all men placing in the Harvard, Princeton or Oxford matches but there were obvious injustices in this method and last year we recommended for insignia the ten men with the highest averages in the matches all during the season. This method will, I think, be found the fairest. Last year in addition to the ten rYt insignias the Athletic association recognized our very good record in the prone shooting by awarding the five highest men on the team their class numerals in addition to the rYt. We are of course given a regular budget and are a fully constituted minor sport. The Athletic association has been most sympathetic and helpful and it is difficult to see how they could have done more. Personally I am very strongly opposed to the control of the rifle team by the R. O. T. C. This tends to keep the Athletic association uninterested and limits members of the team to members of the R. O. T. C. Co-operation with the R. O. T. C. is both necessary and beneficial to both. At Yale this organization has done a very great deal for us and only through the aid of its officers and commander has the existence and development of the sport been possible. The ideal arrangement is controlled by the Athletic association and in co-operation with the military.

We have been unusually lucky in being situated at the headquarters of The Winchester Repeating Arms company. They have given us invaluable assistance in many ways. They published two programs for us, sent instructors of nationwide reputation such as Captain Richards and Virgil Richards to help us, and aided us a great deal in publicity. I would suggest to any manager who wishes to make use of the assistance in publicity which they so kindly offer that he communicate with Peter P. Carney, Winchester Repeating Arms company, New Haven, Conn. Publicity of the right kind is most desirable in promoting the sport. The undergraduate body cannot be expected to show interest unless the matches are written up in the college paper and other papers.

For the future I think the greatest

ing lies in the standardization of conditions, the development of the off-hand, sitting, and kneeling positions to obtain greater variety; and the recognition more fully by the war department of the immense value of intercollegiate shooting in the preparation of the nation by sending each year a certain number of recognized college teams (not R. O. T. C. teams) to the national matches in the summer. Congress as well as the war department must be confronted with the amazing possibilities and eventual economies in this type of preparation and this can only be done by unceasing effort and publicity.

There are times when those who are striving to promote the sport in college will become pretty discouraged. It all takes so much time and as colleges are as a whole very conservative are results may seem so very small. Yet those who are really working for the sport will find that though the material honor from their position is not great they will obtain an immense amount of satisfaction in knowing that they are doing their

country a great service in helping to prepare it for the war which we all hope may never come. If the war comes how many lives may be saved by having as a nucleus for an army a body of college men who have learned how to shoot and how to take care of a rifle. The service is all the

more worthy in that it will go practically unrecognized.

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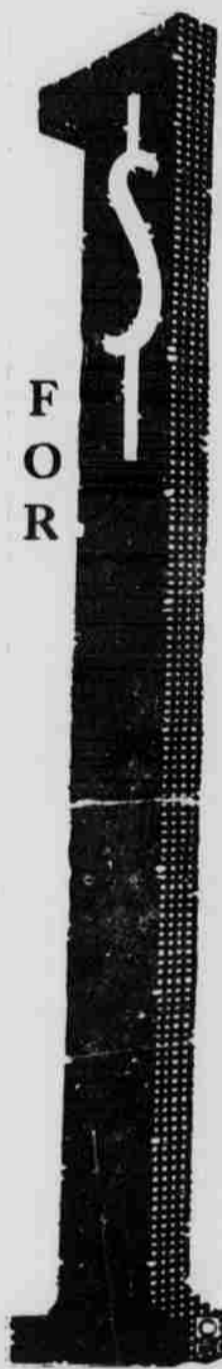
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