

The : Pennsylvania : State : College

EDWIN ERLE SPARKS, Ph.D., LL. D., PRESIDENT

Established and maintained by the joint action of the United States Government and the Commonwealth of Pennsylvania

FIVE GREAT SCHOOLS offering twenty-eight courses of four years each - Liberal Arts, Natural Science, Agriculture, Engineering, Mines and Metallurgy, and Courses in Home Economics, Industrial Arts and Physical Education for women. **TUITION FREE** to both sexes. Tuition charges moderate. First semester begins in September and second semester the first of February each year. For catalog, bulletins and applications, etc., address The Registrar, State College, Pennsylvania.

The New Head of the Department of Mechanical Engineering.

Professor L. A. Harding who has been appointed to the position of head of the department of Mechanical Engineering was graduated from this institution in 1899, receiving the degree of B. S. in Mechanical Engineering. Upon leaving college he entered the service of the Duxson Manufacturing Company, and did some excellent work in steam engine design. After this, he was connected with the Lackawanna Iron and Steel Company, as a designer. He then accepted a position in the department of Machine Design at Cornell University where he made an enviable record, later returning to the Lackawanna Iron and Steel Company, as the superintendent of a division of the work of that company. He came to State College during the year 1904-5 to fill the Professorship in Machine Design in the department of Mechanical Engineering. He left here to take the position of manager of the Cincinnati office of the Armstrong Cork Company, from which position, he was promoted to chief engineer of the same company. During his connection with this company, he served as supervising architect for the large insulation plant at Beaver Falls, and also for a linoleum plant of the same company at Lancaster, Pennsylvania. This latter plant is one of the largest of its kind in the United States and

cost between two and three millions of dollars.

Professor Harding's valuable engineering experience, in connection with his marked ability as a teacher, fits him pre-eminently for the position he now holds.

In addition to the experience he has had with the firms mentioned above, Professor Harding has also done some excellent work in the capacity of consulting engineer along the lines of the design of various types of machines, including refrigerating plants.

Our New Industrial Engineering Course.

The Industrial Department established in June, 1909, is for the purpose of developing the shops along more especially practical lines for giving instruction in the business phases of the industries. The industrial course itself begins with the Junior year and in addition to technical subjects, offers shop time study, manufacturing accounts, shop systems, shop economics, labor problems, factory planning, etc. A course of this character is being demanded vigorously by the leading industries of the country.

The shops are being so re-organized as to put them as nearly as possible upon the same basis and system as is to be found in commercial establishments of a similar character. So far as possible, the old exercises are being abandoned and actual construction substituted

in their place. To strengthen this work, Messrs. Light and H. W. Small have been added. Mr. Small is an arts graduate of Colby College, Maine, and has had many years of experience as a teacher, both in general subjects and in mechanic arts. He also has taken courses at Columbia University. Mr. Light is an excellent mechanic by training and has held important positions as supervising foreman in charge of large numbers of men and important work.

Architectural Drawing in our Engineering School.

The School of Engineering is preparing to develop such courses in mill design and architectural drawing as should prove particularly adaptable to the needs of our technical students.

A large part of Professor J. B. Whitmore's extended experience in the field of design has been in what is termed "mill design" and Mr. Raymond Everett, who came to us this year, is a graduate in architectural drawing of Harvard University.

Special courses will shortly be commenced by Mr. Everett upon the principles of architecture. These courses will, for the present, be taken as extra work, and should prove very attractive to all who care to study the fundamental underlying principles of design, which enter into the creation of architectural masterpieces.