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**EDUCATION AT EXPOSITION.**

Prof. F. W. Smith Contributes Able Article to "Education."

Our attention has been called to an article in the December issue of "Education," by Prof. Frank W. Smith of the department of education at this University. The article is entitled, "Education at American Expositions." In the beginning of the article he emphasizes the fact that a great exposition is a great educational opportunity, and then proceeds to speak particularly of school exhibits, their scope and aim. His observation in several expositions, more intimate relations with one of them, and experience in planning and installing local exhibits do perhaps give a certain force to his reflections and suggestions which abstract thought alone could not produce.

He makes plain the fact that one of the most conspicuous functions of an educational exhibit is that of representing graphically and impressively the larger and more external features of education. A collection of educational results, he says, will show some of its more subtle and delicate forces, its life and principles of operation and evolution. He shows how an easy grouping of exhibits may show very forcibly how there is no class of people which education does not reach, how an exhibit furnishes material for the student of the history of education—treating this phase at length—and how it presents many opportunities for influencing and advancing education. In a strong light is presented the service that would be rendered if teachers could have an easy access to means for determining aims, means of reaching the aims, the significance and unity of a course of study, the psychological relation of the child to the educational process suggested by a sympathetic study of child-life, the relation of the school to institutional life, and other kindred topics as viewed by educators from all parts of the country. He delineates the advantage that would follow if the leading problems of education were given recognition, and in concluding he brings in the point that there should be a place for an ideal in a school exhibit, such as enables progressive educators and investigators to see beyond the present aim, course, method and organization.

Professor Smith's article is a splendid exposition of the subject discussed, and the balance and the clearness of style throughout recommends it to those who may have the opportunity of perusing it.

**Engineering Notes.**

Bruce Benedict, '01, is in Pennsylvania inspecting the new steel cars and engines that the Burlington railroad is purchasing.

Melvin Price, instructor in mechanical drawing, writes from New York City, that he is inspecting the various engineering works there, and also taking a little work in Columbia University in metalurgy, especially with reference to metals for bearings.

Professor Richards has ordered the castings for a new 12-inch crank shaper from a firm in Cincinnati. These will be worked up by the class in mechanical engineering 6 next semester and the machine will be placed in the shops when completed.

The cylinder of the gas engine at the state farm, which was wrecked by the freezing of the water jacket, has been repaired, and the engine is now in shape to run.

A. E. Miller writes from South America, where he is in the employ of the J. I. Case Threshing Machine company. "He is enjoying his work, but expects to be in school next year."

The Engineering society will meet this evening at 7:30 in U. 107. Professor Richards will give an illustrated lecture on "The Allis-Chalmers Company."

The class in civil engineering 7, railroad engineering, is now studying the subject of "Virtual Grades." Each member of the class has been given the actual profile of a division and is required to work out the virtual profile

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of the line and determine the best means of handling the traffic over it, i. e., whether "pusher" engines be used or the train loads reduced.

Professor Stout has given the class in hydraulic engineering a number of references by the best authorities on the Isthmian canal. In view of the present status of this question no more timely subject could be considered.

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